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Suncoast Lakes Commercial

Pre-Design Testing of Soils February 2007

Lab No: 189520

Prepared For:

Rizk Florida JV 12830 Shady Hills Road Spring Hill, Florida 34610-8057

Issued to:

Rizk Florida JV

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Florida Design Consultants, Inc. 3030 Starkey Boulevard New Port Richey, Fl 34655

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March 2, 2007

Mr. George A. Nicholas Rizk Florida JV 12830 Shady Hills Road Spring Hill, Florida 34610-8057

Re:

Suncoast Lakes Commercial

Preliminary Geotechnical Investigation

Lab No. 189520

Dear Mr. Nicholas:

As authorized, our office has completed the requested geotechnical services performed in areas of future roadways, parking areas, drainage ponds, mitigation areas, selected out parcels, as well as a proposed Publix Supermarket planned at the above referenced site.

SCOPE OF SERVICES

Our Scope of Services included completing twelve (12) auger borings to a depth of 6 feet at staked locations in the proposed roadways and parking areas, classifying the twelve (12) soil types identified by these borings, recording existing water tables and noting indicators of seasonal high water table levels, as well as recording soil profiles, water table levels and estimates of seasonal high water levels in the twenty (20) SPT borings completed in proposed retention ponds and mitigation areas. Also included are five (5) SPT borings in selected out parcels and five (5) SPT borings performed in the proposed Publix.

GENERAL SITE CONDITIONS

This project is located in the west central portion of Pasco County just west of the Suncoast Parkway on the southeast corner of SR 52 and Suncoast Lakes Boulevard, as shown on our attached site location map. A color aerial photograph of the project site is included as an attachment to this report. The site is moderately wooded with a borrow lake present in the approximate center of the property, an existing lake and smaller drainage pond located near the southwest corner of the site, and a fenced drainage pond present just northeast of the borrow lake. The borrow lake is situated where a significant amount of the development is planned and thus will need to be properly drained and filled. More specific recommendations relating to this procedure will be addressed later in this report.

Low growing brush and palmettos had been recently cut throughout the majority of the property to allow access to Florida Design Consultants (FDC) personnel and for this investigation. A site map showing the location of our roadway borings (RB-101 through RB-105 and RB-107 through RB-113), pond borings (PB-101 through PB-107), mitigation area borings (MB-101 through MB-113), out parcel borings (OB-101 through OB-105), and Publix borings (XB-101, XB-104 through XB-107) is also included as an attachment. This layout describes which boring locations, specifically RB-106, RB-107, RB-108, XB-102, and PB-101, were either moved, not staked, or eliminated due to the lake.

As will be noted in the individual boring sections presented later in this report, some of the boring logs included were generated during a previous geotechnical investigation that was halted at your direction prior to being fully completed. Since some of these previously performed borings were determined to be at or near certain locations designated for this investigation, they have been incorporated into this report. These borings will be identified by the new designation shown on the location map as well as their original label when originally performed.

Test Methods

The borings were done using sampling intervals in excess of those required by ASTM Specifications, D-1586, describing the Standard Penetration Test or "split-spoon" method of sampling. Four samples were taken in the upper ten feet to provide greater definition within this zone.

The penetration resistance testing and sample taking was accomplished with the use of a 2" O.D. sampler seated six inches into the bottom of the borehole and advanced an additional one-foot under the effort of a 140 pound hammer falling freely thirty inches. The number of blows required of the hammer to advance the sampler one foot into undisturbed material was noted as the blow count (N) of that particular stratum.

Portions of each soil sample so taken, were classified, sealed in moisture-proof containers and returned to our laboratories for verification of field classification.

The borings were advanced using a rotary drill rig, utilizing a recirculating bentonite drill fluid to maintain the borehole in noncohesive soils and to remove cuttings created by the drill bit.

Upon completion the boreholes were sealed in accordance with SWFWMD regulations.

Hand auger borings were accomplished with the use of posthole diggers and the Iwan type of hand auger. This method of sampling allows for soil samples in approximately six-inch vertical increments to be retrieved to the surface for visual classification and collection.

DISCUSSION OF LABORATORY TESTING

Samples obtained in the field were visually classified following NRCS (Natural Resource Conservation Service) guidelines, which closely resemble ASTM D-2488, titled "Description and Identification of Soils". This visual method is used to describe samples encountered in the field, which are labeled and brought back to our laboratory in sealed containers and inspected by our Staff Geologist.

All soils are then dried to a constant weight and prepared for the appropriate testing, which may consist of any or all of the following:

- 1. Sieve analysis per AASHTO Designation T 27-93
- 2. Atterburg Limits of Soils AASHTO T 89-94 & T 90-94
- 3. Organic Content of Soils AASHTO T 267-86

Based on results of appropriate tests, the soils are classified per AASHTO M 145-91.

PROPOSED MITIGATION AREAS

A total of thirteen (13) SPT borings were completed to determine the soil profile, current water table levels, and estimates of historical seasonal high water table levels.

With the exception of conditions encountered at locations MB-103 and MB-113, soils were generally found to consist of slightly loose to medium dense granular sands to depths of at least 20 feet. At MB-103, a very loose black silty sand was recorded from -12.0 to -27.0 feet that was determined to contain marginally organic matter. Depending on the uniformity of this material, it may be suitable for use as fill but would need to be checked on a periodic basis prior to being used. AT MB-113, a thin layer of sandy clay was found from -9.0 to -11.0 feet that will not be suitable for use as fill due to its expansive properties. At this same location, very loose (WOR) conditions were found from -20.0 to -27.0 feet in a fine sand containing a trace of clay. Consistency of the soils below this depth were checked and found to be medium dense to the termination depth of -31.5 feet.

Current water table levels ranged from -2.6 to -6.1 feet below existing ground while estimates of seasonal high water table (SHWT) levels were estimated from -0.3 to -2.0 feet, depending on location.

PROPOSED PONDS

A total of seven (7) pond borings were performed that generally found slightly loose to medium dense granular sands present to depths of at least 25 feet. At two (2) boring locations, PB-101 and PB-102, unusable sandy clay soils were present from -11.0 to -15.0 feet and from -15.0 to -21.0 feet below existing ground, respectively. These

cohesive soils are not suitable for use as fill and thus should not be excavated for this purpose.

Current water table levels ranged from -1.9 to -5.5 feet below existing ground while estimates of seasonal high water table (SHWT) levels were estimated from surface to -1.0 feet, depending on location.

As indicated by the data obtained, water table levels ranged from -0.5 feet to -7.0 feet below existing ground, depending on location, with estimates of historical seasonal high water levels ranging from +0.5 feet above the surface to -3.0 feet below existing ground. As in the roadway areas of the site, water table levels appear to be suppressed due to the normal "dry" season.

Suitable fill soils were generally encountered to a depth of at least 25 feet with the exception of the isolated clay strata found at PB-101 and PB-102.

Please be aware that this information is based on the conditions found at the specific locations tested and may or may not be representative of the entire area of the proposed ponds and mitigation area.

Non-plastic granular fine sands are suitable for use as structural fill and could be used in roadways or building areas. Layers of plastic clay soils and soils with high organic content are not suitable for these applications and should not be excavated for this purpose, if encountered.

NRCS SOILS DATA

The NRCS (Natural Resource Conservation Service) shows the site, prior to development, as containing the following predominant soil series with associated SHWT levels:

Soil Series	SHWT (ft)	Season Occurring
Smyrna	0.0 to -1.0	July-October
Pomello	-2.0 to -3.5	July-November
Sellers	+2.0	June-March

Our site-specific data generally agrees with these listings but feels the Pomello designation is more limited than shown. This is reflected in the profiles encountered as well as our estimates of actual SHWT levels.

OUTPARCEL BORINGS

Five (5) SPT borings were drilled to depths of 25 feet to determine soil profiles and N values in the out parcels situated near the proposed entrance road coming off of SR 52. Borings OB-101 to OB-104 are west of the planned entrance while OB-105 is located on the eastern side of this future roadway. OB-101 and OB-2 were previously

performed and were originally labeled SPT-1 and SPT-3. Both designations are shown on the attached boring logs. The remaining borings were all performed earlier this year.

Conditions encountered varied depending on location, with OB-101 finding medium dense soils within the upper 5 feet followed by loose to slightly loose sands to a depth of 15 feet. Medium dense sands were present again from -15 to -25 feet, at which point the boring was terminated. OB-102 discovered medium dense sands from the surface to a depth of 10 feet at which point loose to very loose sands extended to depth of 30 feet. The boring was terminated at this point with a slight increase in penetration resistance occurring from -20 to -30 feet.

OB-103 encountered a very uniform profile of medium dense granular sands from the surface to the termination depth of 25 feet. OB-104, performed southeast of OB-103, found very loose to slightly loose organic rich soils within the upper 3.5 feet of the profile. Below this depth, generally medium dense granular sands were encountered to a depth of 25 feet. The organic content of these soils was determined to be 12.3 %.

OB-105 found the upper 5 feet to consist of medium dense sands with the top 2 feet containing a significant amount of roots. Below this depth, loose sands were present to -10.0 feet followed by medium dense sands to a depth of 25 feet.

Current water table levels ranged from -4.7' at OB-104 to -4.9' at OB-103.

General Building Foundation Recommendations

Soils described by SPT borings OB-101 and OB-102 are generally satisfactory for supporting standard shallow spread footer foundations.

Conditions at OB-103 found soils that would also be capable of supporting standard spread footer construction while OB-104 found unsuitable organic soils from the surface to a depth of 3.5 feet that are not suitable for standard construction and thus would need to be removed and replaced with suitable structural fill compacted to project specifications.

Soil profiles recorded at OB-105 are suitable for standard spread footer construction provided that the roots found within the upper 2 feet are removed and properly replaced with suitable structural fill.

In order to provide specific recommendations regarding allow soil pressure values for design purposes for both the above out parcels, a more extensive geotechnical investigation performed within the footprint of the planned commercial structures would be required. This investigation would include auger borings and associated lab testing of the soils to better define the shallow organic soils discovered by this investigation.

PUBLIX BORINGS

Only five (5) of the seven (7) borings could be performed, with XB-102 and XB-103 not being staked or drilled due to conflicts with the existing borrow lake. At location XB-101, located in the SW corner of the proposed main structure, medium dense to loose sands were found to a depth of roughly 3 feet followed by very loose sands with organics from -3.0 to -6.5 feet. Soils within this strata were tested and found to contain 6.4% organic matter, by weight. Below this depth, a variety of loose to medium dense sands were encountered to a depth of 25 feet. Conditions at XB-104, located in the northeast corner of the main structure, found loose to very loose soils starting at the surface and continuing to a depth of approximately 12.5 feet. Organic rich soils (11.0%) were recorded from -2.5 to -4.5 feet, with the upper 2.5 feet of soils being described as containing a significant amount of roots. From roughly -15.0 to -25.0 feet, medium dense granular fine sands were found. At location XB-105, a highly organic rich soil (muck) was present from the surface to -1.0 feet followed by loose to slightly loose fine sands to a depth of -4.5 feet. At this depth, a very loose strata of organic soils (8.1%) continued to -7.0 feet. Soils below this depth consisted of loose to medium dense fine sands to -25.0 feet. Conditions at XB-106, located in the southeast corner of the planned building, found a variety of undesirable conditions starting with loose sands and sands with organics within the upper 4 feet, followed by loose sands to -8.0 feet at which point a very loose and with organics (6.5%) that extended to a depth of 17.0 feet. Within this strata a very loose weight of hammer (WOH) condition was recorded from approximately -8.0 to -14.0 feet. Soils below this depth were medium dense fine sands that continued to a depth of -25.0 feet. Boring XB-107, performed in the planned truck well on the southern side of the building, found medium dense sands to a depth of roughly 5.0 feet followed by very loose to loose sands to approximately -10.0 feet. At -10.0 feet, slightly loose sands were followed by medium dense sands to -20.0 feet. Loose fine sands terminated the boring at the prescribed termination depth of 25 feet.

Recommendations

Due to the inconsistency of conditions encountered, which included variable upper soils consisting of low bearing organic rich sands and deeper soils that exhibited WOH penetration values, we recommend that additional geotechnical services be performed before foundation recommendations are provided for the proposed Publix. Taking into account that a portion of the planned building will over an existing borrow lake, additional borings should be taken within the lake after is it drained to determine its bottom condition, and/or at least along the perimeter of the lake (where accessible) and also in the area of XB-106 to determine the extent of the very loose soil profile recorded at this location. Based upon the findings of the supplemental borings. recommendations may include removal and replacement of unsuitable soils, specialized shallow foundations, deep piling foundations and/or subsurface grouting. These specific recommendations could only be made after the completion and review of a supplemental investigation.

ROADWAY PROFILE BORINGS

The twelve (12) roadway borings, detailed on pages 1 and 2 of the accompanying hand auger profile sheets, identified ten (10) granular fine sands and granular fine sands with a trace of roots classified as A-3 by the AASHTO soil classification system. In addition, two (2) soils containing various amounts of organic matter, classified as A-8 by the AASHTO soil classification system, were also identified. Sample 3, found at borings RB-101 (-3.5 to -4.5 feet) and RB-111 (surface to -0.3 feet) had an organic content of 15.6%, while sample 11, found at boring RB-108 (surface to -1.5 feet) was determined to contain 36.9% organics. These materials are unsuitable for use and thus will need to be removed during normal grubbing and stripping operations.

Although it was determined to be suitable from a composition standpoint based on samples obtained at each location encountered, sample 2 was found to have an average organic content of 4.7%, which is close to the industry recognized threshold of 5.0%. For this reason, conditions in the areas where this material was found should be checked during initial site work operations to insure that no pockets with higher concentrations of organic matter are present that were not discovered by this investigation. These soils are all described, along with their corresponding Munsell designation, on the hand auger profile sheets accompanying this report.

As noted on the test location map, RB-106 was not performed since it was located in the middle of the existing borrow lake. In addition to this boring being omitted, borings RB-107 and RB-108 were staked along the edge of the existing lake.

Water table levels were found ranging from -1.1 to > -6.0 feet below the existing ground surface with indicators of historical seasonal high water levels found ranging from the surface to -2.4 feet below existing ground, depending on location.

Pavement Recommendations

Based on conditions found at the locations tested, a portion of the planned parking and drive areas contain shallow organic rich soils that will need to be removed and replaced with suitable structural fill. This is in addition to the majority of the future pavement areas that are currently comprised of the borrow lake. In order to insure that the finished pavement meets project specifications, the lake will need to be drained so that conditions in the bottom of the lake can be determined. Once this is accomplished, the lake will need to be properly filled to design grades under engineering guidelines.

Provided that these procedures are accomplished, conditions should be suitable for supporting standard parking lot and pavement construction. The noncohesive nature of the upper sandy soils would most likely require stabilization under typical base construction of crushed aggregate materials such as limerock or crushed concrete, however, soil cement bases generally do not use stabilization unless heavy traffic volumes dictate it by design. The existing noncohesive sandy soils, assuming no filling is to take place, have a Soil Support Value of approximately 5.0. Flexible Pavement

Design procedures would generally require a stabilization value of LBR 40 for subgrade supporting crushed limerock base or crushed concrete material and/or soil cement base material with a compressive strength of 300 psi or less at 7 days of age. The use of underdrains to control high water tables may be needed based upon SHWT levels unless pavement grades are raised from existing grades. We suggest that after completion of the preliminary construction drawings that our office be given a chance to review grades and comment further on the need for underdrains.

CONCLUSIONS

This limited investigation has identified several soil constraints that need to be addressed. Specifically, borings labeled as OB-104 and OB-105, staked in the eastern portion of the out parcels located near the planned entrance road, found shallow organic rich soils that will need to be removed and replaced with suitable structural fill. In the planned Publix building, only five (5) of the seven (7) desired locations could be drilled due to a portion of the building also planned to sit over the existing lake. Within the five locations drilled, several found unsuitable conditions consisting of shallow organic soils and a very weak profile at location XB-106. Isolated shallow organic soils were also found in areas of proposed roadways and parking that will need to be removed during site clearing operations. Due to these conditions, we have recommended that additional services be performed in both the outparcels and the planned Publix. We are available to meet in the field or at FDC to establish the location of the supplemental borings and the full scope of services deemed necessary to provide this information.

LIMITATIONS

This investigation and report deals with the soil zones and strata located within the area represented from the ground surface to the termination depth of the individual borings. It is not intended to predict or accept responsibility for sinkhole development. Other means of subsurface investigations including, but not limited to, deep structural borings, rock coring, geophysical studies, ground penetrating radar or resistivity surveys are used for sinkhole potential determinations and are out of the scope of this investigation.

Generally accepted soil mechanics and foundation engineering practices were utilized in the preparation of this report; and no other warranty, either expressed or implied is made as to the recommendations provided. This report is for the exclusive use of our client and may not contain sufficient information for other uses, such as quantity take-offs, or for interpretation by other parties for bidding purposes. In the event conclusions and/or recommendations based on our data are made by others, such conclusions, and/or recommendations, are not our responsibility unless we have been given an opportunity to review and concur with them.

The boring data represents only that data obtained during this investigation at the specific locations shown on the site reduction attached to this report.

As always, we appreciate this opportunity to be of service and are available to answer any questions that might arise regarding this matter.

Sincerely,

CENTRAL ELORIDA TESTING LABORATORIES, INC.

Tom Gates

Director of Technical Services

George C. Sinn, Jr., P.E/

President 3-5-07

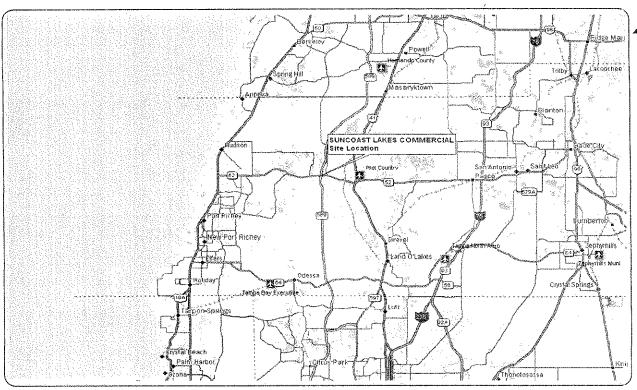
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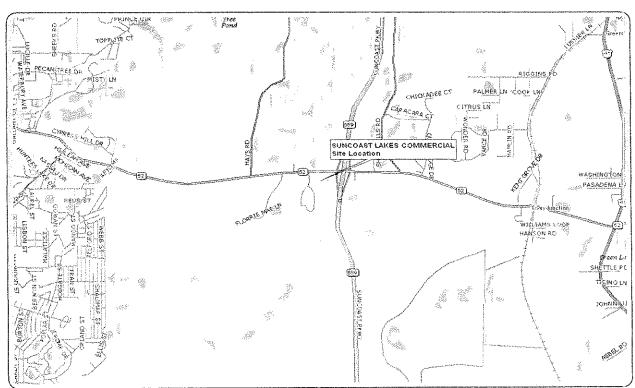
TG/GCS/rm attachments

cc: Mr. Octavio Cabrera, P.E. - Florida Design Consultants, Incorporated

MAPS Various







CFTL Central Florida Testing Laboratories, Inc.

Project: Suncoast Lakes Commercial

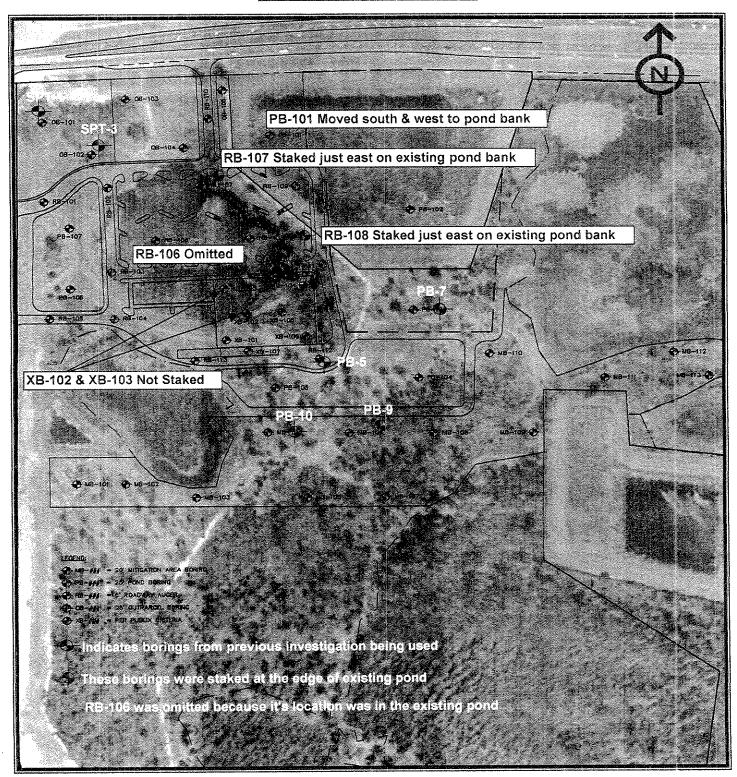
Lab No: 189520

Location: Pasco County, Florida

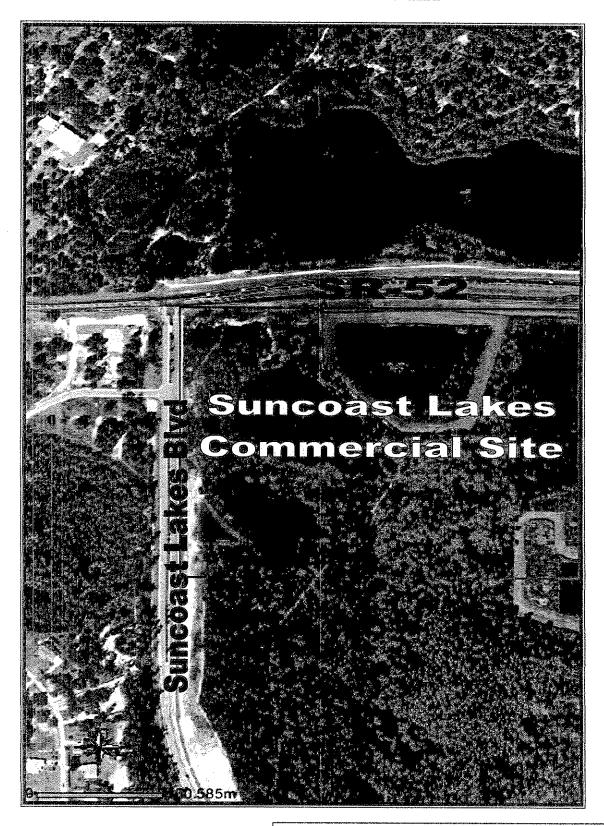
	Legend		Figure	1 - L	ocation
A	Subject Property	12202	Interstate		Water
	Population Center	******	Toll Highway		Intermittent Lake
	Land	200	US Highway		Wetland
	Sand	\$ INDEX	State Route		River/Canal
	Woodlands		Local Road		Intermittent River
學學	Park	roand	Major Connector		Railroad

Lab No: 189520

Test Locations Map

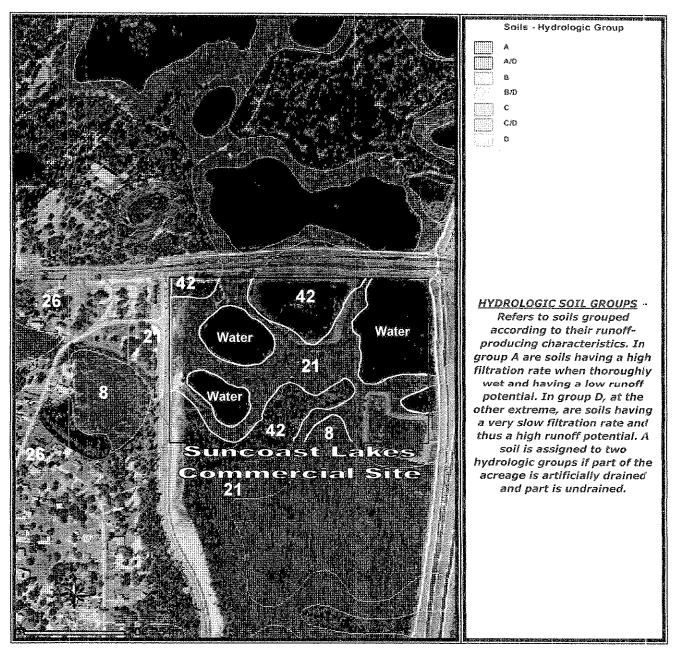


Aerial Photograph of Site



Lab No: 189520

NRCS Soils Map



SoilName & Number	NRCS SHWT (ft)	Months Apparent
21 - Smyrna	0.0 to -1.0	July - October
42 - Pomello	-2.0 to -3.5	July - November
8 - Sellers	+2.0	June - March

Shallow Auger Borings & & Laboratory Data



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Project: Suncoast Lakes Commercial	Location: Pasco County, Florida
Lab No: 189520	Client: Rizk Florida JV

HAND AUGER BORINGS

BORING NO.	DEPTH (ft.)	SOIL COLOR	MUNSELL COLOR	SOIL DESCRIPTION	SAMPLE NO.
RB-101 elev. 53.41	0.0 - 1.8 1.8 - 3.5 3.5 - 4.5 4.5 - 5.0 5.0 - 6.0	Gray Dark gray Black Very dark grayish brown Yellowish brown	(10YR 5/1) (10YR 4/1) (10YR 2/1) (10YR 3/2) (10YR 5/4)	fine sand w/small roots fine sand w/small roots sandy muck w/small roots fine sand w/small roots fine sand w/trace small roots	1 2 3 4 5
RB-102 elev 49.99	0.0 - 2.5 2.5 - 3.0 3.0 - 6.0	Dark gray Yellowish brown Brownish yellow	(10YR 4/1) (10YR 5/4) (10YR 6/6)	fine sand w/small roots fine sand w/trace small roots fine sand	2 5 6
RB-103 elev. 51.94	0.0 - 1.3 1.3 - 5.0 5.0 - 5.5 5.5 - 6.0	Brown Light gray Brown Yellowish brown	(10YR 5/3) (10YR 7/1) (10YR 5/3) (10YR 5/4)	fine sand w/trace small roots fine sand w/small roots fine sand w/trace small roots fine sand w/trace small roots	7 8 7 5
elev.	0.0 - 1.0 1.0 - 3.0 3.0 - 3.6 3.6 - 6.0	Gray Brown Dark gray Yellowish brown	(10YR 5/1) (10YR 5/3) (10YR 4/1) (10YR 5/4)	fine sand w/small roots fine sand w/trace small roots fine sand w/small roots fine sand w/trace small roots	1 7 2 5
RB-105 No Stake	0.0 - 2.0 2.0 - 5.0 5.0 - 6.0	Gray Light gray Dark yellowish brown	(10YR 5/1) (10YR 7/1) (10YR 3/6)	fine sand w/small roots fine sand w/small roots fine sand	1 8 9
RB-106		BORING WAS NOT STA			
elev.	0.0 - 1.6 1.6 - 3.4 3.4 - 6.0	Dark gray Gray Very pale brown THIS STAKE WAS PLACE PROVIDED SITE LAYOU		fine sand w/small roots fine sand w/small roots fine sand w/small roots ATION SHOWN ON THE	2 1 10

HAND AUGER BORINGS

BORING NO.	DEPTH (ft.)	SOIL COLOR	MUNSELL COLOR	SOIL DESCRIPTION	SAMPLE NO.
	A	And the state of t	171 WIN WORK IN THE WORK	Common Control 1 1 Control	NO.
RR_108	0.0 - 1.5	Black	(10YR 2/1)	muck w/small roots	
elev.	1.5 - 2.0	Gray	(10YR 5/1)		11
52.41	2.0 - 3.8	Brown	(101R 5/1) (10YR 5/3)	fine sand w/small roots fine sand w/trace small roots	1
022.11	3.8 - 6.0	Very pale brown	(10YR 7/3)	fine sand w/small roots	7 10
	0.0 0.0			OCATION SHOWN ON THE	10
		PROVIDED SITE LAYO		OOM TO WITH ON THE	
RR-109	0.0 - 2.0	Yellowish brown	(10YR 5/4)	fine sand w/trace small roots	
elev.	2.0 - 3.6	Brown	(10YR 5/3)	fine sand w/trace small roots	5 7
49.13	3.6 - 6.0	Brown	(10YR 5/3)	fine sand	12
15.10	0.0	Diowii	(1011(010)	ine sand	12
RB-110	0.0 - 1.5	Dark gray	(10YR 4/1)	fine sand w/small roots	2
elev.	1.5 - 2.8	Brown	(10YR 5/3)	fine sand w/trace small roots	7
51.48	2.8 - 3.7	Yellowish brown	(10YR 5/4)	fine sand w/trace small roots	5
	3.7 - 6.0	Brownish yellow	(10YR 6/6)	fine sand	6
		•	, ,		
RB-111	0.0 - 0.3	Black	(10YR 2/1)	sandy muck w/small roots	3
elev.	0.3 - 1.6	Light gray	(10YR 7/1)	fine sand w/small roots	8
52.91	1.6 - 2.5	Very pale brown	(10YR 7/3)	fine sand w/small roots	10
	2.5 - 2.8	Dark yellowish brown	(10YR 3/6)	fine sand	9
	2.8 - 3.0	Brownish yellow	(10YR 6/6)	fine sand	6
	3.0 - 6.0	Very pale brown	(10YR 7/3)	fine sand w/small roots	10
RB-112	0.0 - 1.8	Light gray	(10YR 7/1)	fine sand w/small roots	8
No	1.8 - 2.0	Dark gray	(10YR 4/1)	fine sand w/small roots	2
Stake	2.0 - 2.7	Dark yellowish brown	(10YR 3/6)	fine sand	9
	2.7 - 3.0	Light gray	(10YR 7/1)	fine sand w/small roots	8
	3.0 - 3.6	Dark yellowish brown	(10YR 3/6)	fine sand	9
	3.6 - 5.2	Yellowish brown	(10YR 5/4)	fine sand w/trace small roots	5
	5.2 - 6.0	Brown	(10YR 5/3)	fine sand w/trace small roots	7
	0.0 - 4.6	Very pale brown	(10YR 7/3)	fine sand w/small roots	10
elev. 51.47	4.6 - 6.0	Brownish yellow	(10YR 6/6)	fine sand	6

Project: Suncoast Lakes Commercial

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WATER TABLE & SEASONAL HIGH WATER TABLE DETERMINATIONS

<u>LOCATION</u>	WATER TABLE (ft.)	SEASONAL HIGH WATER LINE (ft.)*
RB-101	> -6.0	-2.4
RB-102	-3.3	-0.4
RB-103	-4.6	-1.3
RB-104	-4.2	-1.0
RB-105	-5.7	-2.0
RB-106	Unable to	perform - location in existing lake
RB-107	-1.9	-0.2
RB-108	-4.8	Surface
RB-109	- 4.1	Surface
RB-110	-4.2	-1.0
RB-111	-5.2	Surface
RB-112	-5.5	-1.4
RB-113	-3.1	-0.6

^{*} Measured from existing ground elevation at time of test.

WASHED GRADATION OF MATERIALS

SAMPLE NUMBER - PERCENT PASSING

SIEVE	1	2	3	4	5	6
1/2"	100	100	N/A	100	100	100
3/8"	100	100	N/A	100	100	100
No. 4	100	100	N/A	100	100	100
No. 10	99	100	N/A	100	100	100
No. 20	98	99	N/A	100	100	100
No. 40	93	96	N/A	97	97	97
No. 80	54	44	N/A	46	44	47
No. 200	4	5	N/A	4	3	2
No. 270	3	4	N/A	3	2	1
Now I have a base	200	•				
SIEVE	7	8	9	10	11	12
1/2"	100	100	100	100	N/A	100
3/8"	100	100	100	100	N/A	100
No. 4	100	100	100	100	N/A	100
No. 10	100	100	100	100	N/A	100
No. 20	100	99	100	100	N/A	100
No. 40	97	96	97	97	N/A	99
No. 80	45	44	48	51	N/A	28
No. 200	2	2	4	1	N/A	2
No. 270	2	2	2	0	N/A	0

^{**} Indication of Seasonal High Water Line denoted at possible "leached" area above existing water table and referenced below existing ground elevation. Interpretation of SHWL is approximate and may vary +/- 6 inches..

AASHTO SOIL CLASSIFICATION

SAMPLE NO.	CLASSIFICATION
1	A-3
2	A-3
3	A-8
4	A-3
5	A-3
6	A-3
7	A-3
8	A-3
9	A-3
10	A-3
11	A-8
12	A-3

<u>INDEX</u>

Granular Materials

A-1 = Stone Fragments, Gravel & Sand. A-2 = Silty or Clayey, Gravel and Sand. A-3 = Fine Sand

Silt-Clay Materials

A-4 = Silty Soils. A-5 = Silty Soils. A-6 = Clayey Soils. A-7 = Clayey Soils

ATTERBURG LIMITS

SAMPLE NUMBER
LIQUID LIMIT
PLASTIC LIMIT
PLASTICITY INDEX
ORGANIC CONTENT

SAMPLE NUMBER
LIQUID LIMIT
PLASTIC LIMIT
PLASTICITY INDEX
ORGANIC CONTENT

1	2	3	4	5	6
16	16		16	16	16
NP	NP		NP	NP	NP
NP NP	NP		NP	NP	NP
	4.7%	15.6%		THE STATE OF THE PROPERTY OF T	

7	8	9	10	11	12
16	16	16	16		16
NP	NP	NP	NP	****	NP
NP	NP	NP	NP		NP
				36.9%	

NP = Non-plastic

Mitigation Borings



Project: Suncoast Lakes Commercial

Location: Mitigation Area Boring
City / State: Pasco County, Florida

Report No: 189520

Log of Borehole: MB-101

Date Drilled: 1-23-07

Depth	Strata Symbol	Subsurface Profile Description	Consistency	Blow Count	N value	old)	netration Test ws/ft) 60 80 100	Lab/ Notes
0	. 15	Ground Surface						
	::::::::::::::::::::::::::::::::::::::	Sand Brown 10yr 5/3, fine grained with roots			:			
		Sand Pale brown 10yr 6/3, fine grained	medium dense	3-4-6	10	•		
		Sand Dark yellowish brown 10yr 4/4, fine grained Sand	loose	4-3-3	6	•		
5		Yellowish brown 10yr 5/6, fine grained					A	
		Sand Brown 10yr 5/3, fine grained	medium dense	5-5-9	14			
		Sand						
		Dark brown 10yr 3/3, fine grained	medium dense	9-9-12	. 21	•		
			I	***************************************		<u></u>		
10-								
	Sand Very dark brown 10yr 2/2, fine grained	medium dense	7-7-13	20	•			
15			1 					
-			medium dense	6-6-9	15	**		
		Sand						
		Brown 10yr 5/3, fine grained	1					
					:			
20-					;			
20			medium dense	5-5-6	11			
						1		
-	,	End of Boring			-	·		
					1	<u> </u>		
25-	A f Andress		11		} :-			

Notes: NRCS Soil Designation: Pomello

NRCS SHGWT= -2.0' to -3.5'

CFTL SHGWT= - 1.2'

Drill Method: Rotary

Sampling Method: Splitspoon ASTM D-1586

Water Table: - 5.0'

Ground Elevation: 51.76'

Drilled by: JS/MS Compiled by: DY



Project: Suncoast Lakes Commercial

Location: Mitigation Area Boring
City / State: Pasco County, Florida

Report No: 189520

Log of Borehole: MB-102

Date Drilled: 1-23-07

Depth	Strata Symbol	Subsurface Profile Description	Consistency	Blow Count	N value	Standard Penetration Test Lab/ (blows/ft) Notes 0 20 40 60 80 100
0		Ground Surface Sand Gray 10yr 6/1, fine grained with roots				
-		Sand Brown 10yr 5/3, fine grained	medium dense	3-5-11	16	
5-		Sand Dark brown 10yr 3/3, fine grained	medium dense	5-5-9	14	
-		Sand	medium dense	9-9-12	21	
		Yellowish brown 10yr 5/6, fine grained	medium dense	7-9-15	24	
10		Sand				
		Brown 10yr 5/3, fine grained	medium dense	3-6-9	15	
15		Sand Dark brown 10yr 3/3, fine grained	medium dense	4-4-6	10	
20-		Sand Brown 10yr 5/3, fine grained				
		-	medium dense	4-6-13	19	
		End of Boring				
25						

Notes: NRCS Soil Designation: Pomello

NRCS SHGWT= -2.0' to -3.5'

CFTL SHGWT= -1.0'

Drill Method: Rotary

Sampling Method: Splitspoon ASTM D-1586

Water Table: - 4.4'

Ground Elevation: 51.44'

Drilled by: JS/MS Compiled by: DY



Project: Suncoast Lakes Commercial

Location: Mitigation Area Boring
City / State: Pasco County, Florida

Report No: 189520

Log of Borehole: MB-103

Date Drilled: 1-23-07

Depth	Strata Symbol	Subsurface Profile Description	Consistency	Blow Count	N value	Standard Penetration Test Lab/ (blows/ft) Notes 0 20 40 60 80 100	
0-		Ground Surface					
-		Sand Gray 10yr 6/1, fine grained with roots Sand Yellowish brown 10yr 5/6, fine grained	slightly loose	4-3-4	7	•	
5		Sand Pale brown 10yr 6/3, fine grained	medium dense	5-5-11	40		
		Sand Yellow 10yr 8/6, fine grained	slightly loose	3-4-5	9		:
		Sand	medium dense	4-5-11	16		
10 -		Brown 10yr 5/3, fine grained	medium dense	5-5-6	11		
15-			very loose	1-0-1	1		
- - 20		Sand Black silty 10yr 2/1					
			very loose	1-0-0	0		!
25							
23			loose	2-1-3	4		
		Sand			: :		
30 -		Yellowish brown 10yr 5/6, fine grained	medium dense	3-4-9	13		
		End of Boring	:				
-					: .		
35-					ONE STANDARD TO THE STANDARD TO STANDARD T		25/25/200

Notes: NRCS Soil Designation: Pomello

NRCS SHGWT= -2.0' to -3.5'

CFTL SHGWT= - 0.3'

Ground Elevation: 50.51' **Drilled by:** JS/MS

Compiled by: DY

Water Table: - 2.6'

Drill Method: Rotary

Sampling Method: Splitspoon ASTM D-1586



Client: GBY, Inc.

Project: Suncoast Lakes - SR52 Commercial

Location: State Route 52 & Suncoast Parkway

City / State: Pasco County, Florida

Report No: 178339

Log of Borehole: MB-104*

Date Drilled: 11/23/05

Depth	Strata Symbol	Subsurface Profile Description	Consistency	Blow Count	N value	Standard Penetration Test Lab/ (blows/ft) Notes 0 20 40 60 80 100
0		Ground Surface				
		Sand Light brown (7.5YR 6/3), fine grained, with small roots.	slightly loose	2-3-4		
			medium dense	3-4-8	12	
)		Sand Dark brown (10YR 3/3), fine grained.	slightly loose	3-4-5	9	
-		Tames (10 (10 (10 o)), fine granted.	medium dense	3-4-6	10	
10-				The state of the s	· · · · · · · · · · · · · · · · · · ·	
		Sand Brown (10YR 5/3), fine grained.	slightly loose	3-3-4	7	
-		The second control of	:		:	
15-			medium dense	3-6-8	14	
			median dense			
20 – –		Sand Light brown (7.5YR 6/3), fine grained.	slightly loose	3-4-4	8	
-			harter and a second and a second a seco			
25						
2.0			medium dense	3-4-6	10	
		End of Boring				
30						

Notes: NRCS Designation: Smyrna

NRCS SHGWT: 0' to -1.0' CFTL SHGWT: -0.4'

* Peviously Labeled PB-10

Drill Method: Rotary

Sampling Method: Splitspoon ASTM D-1586

Water Table: -1.5' bls

Ground Elevation: 52.6'

Drilled by: AC/AJ Compiled by: PG



Project: Suncoast Lakes Commercial

Location: Mitigation Area Boring
City / State: Pasco County, Florida

Report No: 189520

Log of Borehole: MB-105

Date Drilled: 1-23-07

Depth	Strata Symbol	Subsurface Profile Description	Consistency	Blow Count	N value	Standard Penetr (blows/f 0 20 40 60	Lab/ Notes
0-	::Y:::;;;	Ground Surface Sand					
the confession of the confessi		Gray 10yr 6/1, fine grained with roots Sand Brown 10yr 5/3, fine grained	dense	9-15-15	30		
		Sand White 10yr 8/1, fine grained Sand	medium dense	4-5-9	14		
5-		Yellowish brown 10yr 5/6, fine grained					
		Sand Brown 10yr 5/3, fine grained	slightly loose	5-4-5	9		
		Sand Yellowish brown 10yr 5/6, fine grained	medium dense	4-6-6	12		
10-		Sand Brown 10yr 5/3, fine grained	medium dense	5-9-12	21		
-							
		Sand					
15-		Dark brown 10yr 3/3, fine grained	oliobtly loops	5-4-5	9	dfs	
			slightly loose		: 3		 :
				•	:		
		Sand			:		
20-		Brown 10yr 5/3, fine grained	medium dense	5-6-10	16	•	
		End of Boring		And the second second			
							 :
25				en nemasan Marke Berekasah masa			

Notes: NRCS Soil Designation: Pomello

NRCS SHGWT= -2.0' to -3.5'

CFTL SHGWT= - 2.0'

Drill Method: Rotary

Sampling Method: Splitspoon ASTM D-1586

Water Table: - 5.6'

Ground Elevation: 53.02'

Drilled by: JS/MS Compiled by: DY



Client: GBY, Inc.

Project: Suncoast Lakes - SR52 Commercial

Location: State Route 52 & Suncoast Parkway

City / State: Pasco County, Florida

Report No: 178339

Log of Borehole: MB-106*

Date Drilled: 11/23/05

Depth	Strata Symbol	Subsurface Profile Description	Consistency	Blow Count	N value	Standard Penetration Test Lab/ (blows/ft) Notes 0 20 40 60 80 100
0-	1.50	Ground Surface			:	
-		Sand Very pale brown (10YR 8/2), fine grained, with small roots.	slightly loose	2-3-4	7	
		Sand White (10YR 8/1), fine grained.	medium dense	2-4-8	12	
5		Sand Brown (10YR 5/3), fine grained.	medium dense	4-4-7	: 11	
			medium dense	2-3-7	10	
10		Sand Light brown (7.5YR 6/3), fine grained.	medium dense	2-4-8	12	
-		Light brown (7.5 f N 6/5), fille grained.			:	
15			slightly loose	2-3-5	8	
		Sand Brown (10YR 5/3), fine grained.				
20			slightly loose	3-4-5	9	
2.1		Sand Light brown (7.5YR 6/3), fine grained.				
25-		Sand Brown (10YR 5/3), fine grained.			-	
		grained.	medium dense	3-4-7	11	•
		End of Boring				
30-						

Notes: NRCS Designation: Smyrna/Pomello

NRCS SHGWT: 0' to -1.0'/-2.0' to -3.5'

CFTL SHGWT: -1.0' bis
*Previously labeled PB-9
Drill Method: Rotary

Sampling Method: Splitspoon ASTM D-1586

Water Table: -2.8' bls Ground Elevation: 53.7' Drilled by: AC/AJ

Drilled by: AC/AJ Compiled by: PG



Project: Suncoast Lakes Commercial

Location: Mitigation Area Boring
City / State: Pasco County, Florida

Report No: 189520

Log of Borehole: MB-107

Date Drilled: 1-23-07

Strata Symbol	Subsurface Profile Description	Consistency	Blow Count	N value	(blows/f	t)	Lab/ Notes
-51.1							
	Sand Brown 10yr 5/3, fine grained	medium dense	5-9-9	18	•		
	Sand Light brown 7.5yr 5/3, fine grained Sand Dark yellowish brown 10yr 3/4, fine grained	medium dense	5-6-6	12			
	Sand Yellowish brown 10yr 5/6, fine grained	medium dense	5-6-11	17			
		medium dense	7-7-13	20			
	Sand Brown 10vr 5/3, fine grained	modium dones	E C 14	47			
	m.c.v. sy, o.o, m.c granica	mediani dense	D-0-11				
		· · · · · · · · · · · · · · · · · · ·		· · ·			
	Sand Yellow 10yr 7/8, fine grained	medium dense	5-7-9	16			
	Sand						
	Brown 10yr 5/3, fine grained	medium dense	4-7-11	18	•		
					· · · · · · · · · · · · · · · · · · ·		
	End of Boring						
				:			
	Strata Symbol	Ground Surface Sand Gray 10yr 6/1, fine grained with roots Sand Brown 10yr 5/3, fine grained Sand Light brown 7.5yr 5/3, fine grained Sand Dark yellowish brown 10yr 3/4, fine grained Sand Yellowish brown 10yr 5/6, fine grained Sand Yellow 10yr 5/3, fine grained Sand Brown 10yr 5/3, fine grained Sand Yellow 10yr 7/8, fine grained	Ground Surface Sand Gray 10yr 6/1, fine grained with roots Sand Brown 10yr 5/3, fine grained Sand Light brown 7.5yr 5/3, fine grained Sand Dark yellowish brown 10yr 3/4, fine grained Sand Yellowish brown 10yr 5/6, fine grained medium dense medium dense medium dense medium dense Sand Yellow 10yr 5/3, fine grained medium dense medium dense medium dense Sand Brown 10yr 5/3, fine grained medium dense Sand Yellow 10yr 7/8, fine grained medium dense medium dense	Ground Surface Sand Gray 10yr 6/1, fine grained with roots Sand Brown 10yr 5/3, fine grained Sand Dark yellowish brown 10yr 3/4, fine grained Sand Yellowish brown 10yr 5/6, fine grained Medium dense 5-6-6 medium dense 5-6-11 medium dense 5-6-11 Sand Yellowish brown 10yr 5/6, fine grained Medium dense 5-6-11 Sand Brown 10yr 5/3, fine grained Medium dense 5-6-11 Sand Brown 10yr 5/3, fine grained Medium dense 5-6-11 Sand Sand Yellow 10yr 7/8, fine grained Medium dense 5-7-13 Sand Yellow 10yr 5/3, fine grained Medium dense 5-7-10 Medium dense 5-7-10 Medium dense 5-7-11 Medium dense 5-7-11	Ground Surface Ground Surface Sand Gray 10yr 6/1, fine grained with roots Sand Brown 10yr 5/3, fine grained Sand Light brown 7.5yr 5/3, fine grained Sand Dark yellowish brown 10yr 3/4, fine grained Sand Yellowish brown 10yr 5/6, fine grained Medium dense 5-6-6 12 Medium dense 5-6-11 17 Medium dense 7-7-13 20 Sand Brown 10yr 5/3, fine grained Medium dense 5-6-11 7 Medium dense 5-6-11 17 Sand Brown 10yr 5/3, fine grained Medium dense 5-6-11 17 Medium dense 5-6-11 17 Medium dense 5-6-11 17 Medium dense 5-6-11 17 Medium dense 5-7-9 18	Count Signar Count Cou	Count Sand Count Count

Notes: NRCS Soil Designation: Pomello

NRCS SHGWT= -2.0' to -3.5'

CFTL SHGWT= - 1.1'

Drill Method: Rotary

Sampling Method: Splitspoon ASTM D-1586

Water Table: - 4.4'

Ground Elevation: 52.01'

Drilled by: JS/MS Compiled by: DY



Project: Suncoast Lakes Commercial

Location: Mitigation Area Boring
City / State: Pasco County, Florida

Report No: 189520

Log of Borehole: MB-108

Date Drilled: 1-23-07

Depth	Strata Symbol	Subsurface Profile Description	Consistency	Blow Count	N value	old)	enetration Test ws/ft) 60 80 100	Lab/ Notes
0-		Ground Surface Sand Gray 10yr 6/1, fine grained with roots					· · · · · · · · · · · · · · · · · · ·	
		Sand Light brown 7.5yr 5/3, fine grained	medium dense	4-6-12	18	•		
		Sand Brown 10yr 5/3, fine grained	medium dense	5-8-8	16	•		
5-		Sand Dark brown 10yr 3/3, fine grained	medium dense	5-6-11	17			
		Sand Brown 10yr 5/3, fine grained	medium dense	7-11-13	24			
10		<i>Sand</i> Yellow 10yr 7/8, fine grained	medium dense	5-6-12	18			
15		Sand Brown 10yr 5/3, fine grained	:					
		Sand Dark brown 10yr 3/3, fine grained	medium dense	9-9-16	25			
20		Sand Brown 10yr 5/3, fine grained						
		End of Boring	dense	10-10-21	31			
		and of boring						
25								

Notes: NRCS Soil Designation: Pomello

NRCS SHGWT= -2.0' to -3.5'

CFTL SHGWT= -1.1'

Water Table: - 4.2'

Ground Elevation: 52.32'

Drilled by: JS/MS Compiled by: DY

Drill Method: Rotary

Sampling Method: Splitspoon ASTM D-1586



Project: Suncoast Lakes Commercial

Location: Mitigation Area Boring
City / State: Pasco County, Florida

Report No: 189520

Log of Borehole: MB-109

Date Drilled: 1-23-07

Depth	Strata Symbol	Subsurface Profile Description	Consistency	Blow Count	N value	Standard Pene (blows 0 20 40	Lab/ Notes
0	: N	Ground Surface Sand					
		Gray 10yr 6/1, fine grained with roots Sand White 10yr 8/1, fine grained	medium dense	3-5-7	12		
		Sand Brown 10yr 5/3, fine grained	medium dense	5-6-9	15	•	
5		Sand Dark brown 10yr 3/3, fine grained	medium dense	6-6-5	11	•	
THE			medium dense	5-6-7	13		
10-			medium dense	7-7-9	16		
		Sand Light brown 7.5yr 5/3, fine grained			-		
15			dense	15-17-14	31		
-							
20-		Sand Brown 10yr 5/3, fine grained					
			medium dense	8-10-12	22	8	
		End of Boring					
25-							

Notes: NRCS Soil Designation: Pomello

NRCS SHGWT= -2.0' to -3.5'

CFTL SHGWT= - 1.7'

Water Table: - 5.3'

Ground Elevation: 52.95'

Drilled by: AC/KJ Compiled by: DY

Drill Method: Rotary

Sampling Method: Splitspoon ASTM D-1586



Project: Suncoast Lakes Commercial

Location: Mitigation Area Boring **City / State:** Pasco County, Florida

Report No: 189520

Log of Borehole: MB-110

Date Drilled: 1-23-07

Depth	Strata Symbol	Subsurface Profile Description	Consistency	Blow Count	N value	Standard Penetration Test Lab/ (blows/ft) Notes 0 20 40 60 80 100
0-		Ground Surface				
		Sand White 10yr 8/1, fine grained	medium dense	4-5-7	12 ,	
		Sand Light brown 7.5yr 5/3, fine grained	medium dense	5-7-9	16	
5		Sand Dark brown 10yr 3/3, fine grained	medium dense	6-7-8	15	
		-	medium dense	6-6-7	13	
10-		Sand Brown 10yr 5/3, fine grained	medium dense	4-6-6	12	
15 	No. of the state o		medium dense	4-6-7	13	
-						
20-		Sand Pale brown 10yr 6/3, fine grained			-	
∠U ***			medium dense	7-7-8	15	
-	a form of species of administration of the species	End of Boring			-	
-						
25	3					

Notes: NRCS Soil Designation: Smyrna

NRCS SHGWT= 0.0' to -1.0'

CFTL SHGWT= - 2.0'

Drill Method: Rotary

Sampling Method: Splitspoon ASTM D-1586

Water Table: - 6.1'

Ground Elevation: 53.93'

Drilled by: AC/KJ Compiled by: DY



Project: Suncoast Lakes Commercial

Location: Mitigation Area Boring
City / State: Pasco County, Florida

Report No: 189520

Log of Borehole: MB-111

Date Drilled: 1-23-07

Depth	Strata Symbol	Subsurface Profile Description	Consistency	Blow Count	N value	Standard Penetration Test (blows/ft) 0 20 40 60 80 10()	Lab/ Notes
0-		Ground Surface					
		Sand Dark gray 10yr 4/1, fine grained	:				
		Sand Light brown 7.5yr 5/3, fine grained	medium dense	3-5-7	12		
		Eight Stown 7.5yr 5/5, line grained	medium dense	5-5-7	12		
5 -		Sand Dark brown 10yr 3/3, fine grained	medium dense	5-5-6	11		
					·		
		Sand	slightly loose	5-4-4	8		
		Brown 10yr 5/3, fine grained					
10			slightly loose	2-3-4	7 .		
		Sand Dark brown 10yr 3/3, fine grained					
		James					
15					:		
		Sand Black 10yr 2/1, fine grained	slightly loose	2-2-7	9		
		Canal					
		Sand Dark brown 10yr 3/3, fine grained				······································	
20-							
			medium dense	5-6-8	14		
	:	End of Boring					
					: !		
			:		-		
25 -							

Notes: NRCS Soil Designation: Smyrna

NRCS SHGWT= 0.0' to -1.0'

CFTL SHGWT= - 1.2'

Drill Method: Rotary

Sampling Method: Splitspoon ASTM D-1586

Water Table: - 5.7'

Ground Elevation: 52.59'

Drilled by: AC/KJ Compiled by: DY



Project: Suncoast Lakes Commercial

Location: Mitigation Area Boring
City / State: Pasco County, Florida

Report No: 189520

Log of Borehole: MB-112

Date Drilled: 1-23-07

Depth	Strata Symbol	Subsurface Profile Description	Consistency	Blow Count	N value	Standard Penetration Test Lab/ (blows/ft) Notes 0 20 40 60 80 100
0-		Ground Surface				
		Sand Gray 10yr 6/1, fine grained			:	
V-1		Sand White 10yr 8/1, fine grained	slightly loose	2-3-5	8	
		Sand Dark brown 10yr 3/3, fine grained	medium dense	5-6-8	14	
5-		Sand Brown 10yr 5/3, fine grained	medium dense	4-5-6	11	
			medium dense	3-4-6	10	
10		Sand			i .	
	Light brown 7.5yr 6/3, fine grained	slightly loose	2-4-5	: 9		
-				·		
15-						
10-			slightly loose	3-3-5	8	
		Sand Brown 10yr 5/3, fine grained				
20		Sand Dark brown 10yr 3/3, fine grained	medium dense	4-5-7	12	
		End of Boring				
					:	
25 –						

Notes: NRCS Soil Designation: Smyrna

NRCS SHGWT= 0.0' to -1.0'

CFTL SHGWT= - 1.2'

Drill Method: Rotary

Sampling Method: Splitspoon ASTM D-1586

Water Table: - 5.5'

Ground Elevation: 52.72'

Drilled by: AC/KJ Compiled by: DY



Project: Suncoast Lakes Commercial

Location: Mitigation Area Boring
City / State: Pasco County, Florida

Report No: 189520

Log of Borehole: MB-113

Date Drilled: 1-23-07

Depth	Strata Symbol	Subsurface Profile Description	Consistency	Blow Count	N value	Standard Penetration Test (blows/ft) 0 20 40 60 80 100	Lab/ Notes
0-	ļ	Ground Surface Sand	!				
		Dark gray 10yr 4/1, fine grained Sand	slightly loose	2-2-5	7		
-		Black 10yr 2/1, fine grained	/				
5		Sand Dark brown 10yr 3/3, fine grained Sand	medium dense	5-7-9	16		v
-		Brown 10yr 5/3, fine grained	slightly loose	4-5-3	8	•	,
		Sand Dark brown 10yr 3/3, fine grained	loose	2-2-3	5		
10		Clay					
		Brown 10yr 5/3, sandy	firm	4-4-4	8		
15		Sand Light brown 7.5yr 5/3, fine grained	loose	3-3-3	6		Sell-hodescent many was on the self-self-self-self-self-self-self-self-
20		against the root of the granted					
2.0			very loose	WOR+7'	0	•	PARTICIPAL PROPERTY OF THE PARTICIPAL PROPERTY O
25							
		Sand Brown 10yr 5/3, fine grained with trace clay	very loose	WOR	0		
30							persymmetry the minimization and party in
			medium dense	5-5-7	12		
		End of Boring					
0.5							
35					OSSIGNATION TO THE STATE	72077844	

Notes: NRCS Soil Designation: Smyrna

NRCS SHGWT= 0.0' to -1.0' CFTL SHGWT= - 0.8'

WOR= weight of rod **Drill Method: Rotary**

Sampling Method: Splitspoon ASTM D-1586

Water Table: - 5.0'

Ground Elevation: 52.24'

Drilled by: AC/KJ Compiled by: DY

Pond Borings



Project: Suncoast Lakes Commercial

Location: Pond Boring

City / State: Pasco County, Florida

Report No: 189520

Log of Borehole: PB-101

Date Drilled: 1-29-07

Depth	Strata Symbol	Subsurface Profile Description	Consistency	Blow Count	N value	Standard Penetration Test Lab. (blows/ft) Note 0 20 40 60 80 100	
0-	<u>.</u>	Ground Surface					
		Sand Light brown, 7.5yr 6/3, fine grained	loose	2-2-2	4		
5		Sand Brown 10yr 5/3, fine grained	slightly loose	4-4-4	8		
			slightly loose	2-3-6	9		
Participal designation of the control of the contro		Sand Light brown 7.5yr 6/3, fine grained	medium dense	7-9-10	19		
10-		J .,, J					
	The state of the s		medium dense	6-9-6	15		
		Clay Gray 10yt 5/1, sandy					
15-	SECRETARIAN AND ADDRESS				<u> </u>		
			medium dense	10-10-14	24		
		Sand White 10yr 8/1, fine grained	dense	14-14-17	31		
			dong.	1 1 -1-1-11		· · · · · · · · · · · · · · · · · · ·	
					:		
25-			dense	10-15-16	31	•	
		End of Boring					
		-	:				
30							
30						THE PROPERTY AND ADDRESS OF THE PROPERTY OF TH	anoroman-sacra

Notes: NRCS Soil Designation: Pomello

NRCS SHGWT= -2.0' to -3.5' CFTL SHGWT= Surface

Drill Method: Rotary

Sampling Method: Splitspoon ASTM D-1586

Water Table: - 2.0'

Ground Elevation: 49.13'

Drilled by: AC/KJ Compiled by: DY



Project: Suncoast Lakes Commercial

Location: Pond Boring

City / State: Pasco County, Florida

Report No: 189520

Log of Borehole: PB-102

Date Drilled: 1-29-07

Depth	Strata Symbol	Subsurface Profile Description	Consistency	Blow Count	N value	Standard Penetration Test Lab/ (blows/ft) Notes 0 20 40 60 80 100
0		Ground Surface Sand Dark gray 10yr 4/1, fine grained with roots				
-		Sand Light brown 7.5yr 6/3, fine grained	loose	4-2-3	5	
5-		Sand Pale brown 10yr 6/3, fine grained	medium dense	8-10-12	22	
_		Sand White 10yr 8/1, fine grained	medium dense	6-6-7	13	
		Sand	loose	2-2-4	6	•
10		Brown 10yr 5/3, fine grained		0.5.0		
15 —		Sand Light brown 7.5yr 6/3, fine grained	medium dense	3-5-6	. 11	
		Clay Light brown 7.5yr 6/3, sandy	stiff	7-6-6	: 12	
20-		Clay Dark gray 10yr 4/1				
25		<i>Sand</i> White 10yr 8/1, fine grained	very hard	20-28-30	58	
20			medium dense	5-6-7	13	
	The state of the s	End of Boring				
30						

Notes: NRCS Soil Designation: Pomello

NRCS SHGWT= - 2.0' to -3.5'

CFTL SHGWT= - 0.3'

Drill Method: Rotary

Sampling Method: Splitspoon ASTM D-1586

Water Table: - 1.9'

Ground Elevation: 49.68

Drilled by: AC/KJ Compiled by: DY



Client: GBY, Inc.

Project: Suncoast Lakes - SR52 Commercial

Location: State Route 52 & Suncoast Parkway

City / State: Pasco County, Florida

Report No: 178339

Log of Borehole: PB-103*

Date Drilled: 11/23/05

Depth	Strata	Subsurface Profile Description	Consistency	Blow Count	N value	Standard Penetration Test Lab/ (blows/ft) Notes 0 20 40 60 80 100
0		Ground Surface				
		Sand Black, fine grained, with trace muck. Sand Light brown (7.5YR 6/3), fine grained, with trace small roots.	medium dense	3-4-7	11	
		Sand	medium dense	5-6-7	13	
- J		Dark yellowish brown (10YR 4/6), fine grained.	loose	2-2-3	5	
			slightly loose	2-3-6	9	
10						
-			medium dense	3-5-7	. 12	
 15		Sand				
-		Dark brown (10YR 3/3), fine grained.	loose	2-2-4	6	
20			medium dense	3-4-6	10	
-						
25 – –		Sand Light brown (7.5YR 6/3), fine grained.	slightly loose	2-4-4	8	•
		End of Boring	:	· · · · · · · · · · · · · · · · · · ·		
-						
30-						

Notes: NRCS Designation: Smyrna

NRCS SHGWT: 0' to -1.0'

CFTL SHGWT: +0.5' (above surface)

* Previously labeled PB-7

Drill Method: Rotary

Sampling Method: Splitspoon ASTM D-1586

Water Table: -0.5' bls Ground Elevation: 52.1' Drilled by: AC/AJ

Compiled by: PG



Project: Suncoast Lakes Commercial

Location: Pond Boring

City / State: Pasco County, Florida

Report No: 189520

Log of Borehole: PB-104

Date Drilled: 1-23-07

Depth	Strata Symbol	Subsurface Profile Description	Consistency	Blow Count	N value	Standard Penetration Test Lab/ (blows/ft) Notes 0 20 40 60 80 100
0-		Ground Surface				
	.	Sand Dark gray 10yr 4/1, fine grained				
_		Sand White 10yr 8/1, fine grained	medium dense	4-5-7	12	
		Sand Light brown 7.5yr 6/3, fine grained	medium dense	6-8-10	18	
5			medium dense	8-9-8	17	
-		Sand	medium dense	3-4-6	10	
10-		Dark brown 10yr 3/3, fine grained				
			loose	2-3-3	6	
			:			
15			medium dense	4-6-6		
			medidin dense	4-0-0	. 12	
		Sand Brown 10yr 5/3, fine grained			•	
20		· · · ·	medium dense	4-8-9		
-				· · · · · · · · · · · · · · · · · · ·		
_ 25		Sand	······································		:	
Z5 		Pale brown 10yr 6/3, fine grained	medium dense	10-10-11	21	
		End of Boring				
30-						

Notes: NRCS Soil Designation: Smyrna

NRCS SHGWT= 0.0' to -1.0' CFTL SHGWT= - 0.9'

Drill Method: Rotary

Sampling Method: Splitspoon ASTM D-1586

Water Table: - 5.5'

Ground Elevation: 52.63'

Drilled by: AC/KJ Compiled by: DY



Project: Suncoast Lakes Commercial

Location: Pond Boring

City / State: Pasco County, Florida

Report No: 189520

Log of Borehole: PB-105

Date Drilled: 1-23-07

Depth	Strata Symbol	Subsurface Profile Description	Consistency	Blow Count	N value	(blo	netration Test ws/ft) 60 80 100	Lab/ Notes
0-	ļ.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Ground Surface Sand						
		Brown 10yr 5/3, fine grained with roots		***************************************				
		Sand Pale brown 10yr 6/3, fine grained	medium dense	5-9-12	21			
		Sand						
		Dark yellowish brown 10yr 4/4, fine grained	medium dense	5-6-6	12			
5		Sand					4	
-		Yellowish brown 10yr 5/6, fine grained	medium dense	9-10-16	26			
		Sand	modium dance	A 7 A 6		11-1-		
		Dark brown 10yr 3/3, fine grained	medium dense	4-7-11	18			
40		0 /	! 					
10-		Sand Yellowish brown 10yr 5/6, fine grained	medium dense	7-7-9	16	nita.		
			Tridate in delibe			1987		
Control of the Contro					:			
STREET, STREET								
15-		Sand Dark brown 10yr 3/3, fine grained			:			
		Dark brown Toyl 3/3, tine grained	loose	3-4-3	7	0		
			<u></u>		i			
de Carantologo) 	<u> </u>		
20 –		S. a. va oli	i					
		Sand Black 10yr 2/1, fine grained	loose	3-3-2	5		<u>i</u>	
annual interest								
25		Sand Dark brown 10yr 3/3, fine grained		40.00.00				
WitSouther			very dense	12-28-34	62		• •	
department		End of Boring			-			
	The second							
District	***************************************							
30-								

Notes: NRCS Soil Designation: Smyrna

NRCS SHGWT= 0.0' to -1.0'

CFTL SHGWT= - 1.0'

Drill Method: Rotary

Sampling Method: Splitspoon ASTM D-1586

Water Table: - 5.5'

Ground Elevation: 52.63'

Drilled by: AC/KJ Compiled by: DY



Project: Suncoast Lakes Commercial

Location: Pond Boring

City / State: Pasco County, Florida

Report No: 189520

Log of Borehole: PB-106

Date Drilled: 1-24-07

Depth	Strata Symbol	Subsurface Profile Description	Consistency	Blow Count	N value	Standard Penetration Test Lab/ (blows/ft) Notes 0 20 40 60 80 100
0-		Ground Surface		·	;	
		Sand Gray 10yr 4/1, fine grained with roots Sand Light gray 10yr 7/1, fine grained	medium dense	3-4-7	11	
5		Sand Dark brown 10yr 3/3, fine grained Sand	medium dense	4-9-11	20	
-		Gray 10yr 5/1, fine grained Sand Brown 10yr 5/3, fine grained	slightly loose	3-4-4	8	
		gamba.	medium dense	5-6-6	12	
10		Sand	****	house a constant of the consta		
		Yellowish brown 10yr 5/6, fine grained	slightly loose	2-3-4	7	
15-		Sand				
		Brown 10yr 5/3, fine grained	slightly loose	3-3-6	9	
			The second			
20		0				
		Sand Dark yellowish brown 10yr 4/4, fine grained	medium dense	5-5-8	13	
 25		Sand				
		Yellowish brown 10yr 5/6, fine grained	medium dense	4-4-7	11	
		End of Boring				
30						

Notes: NRCS Soil Designation: Smyrna

NRCS SHGWT= 0.0' to -1.0'

CFTL SHGWT= - 1.0'

Drill Method: Rotary

Sampling Method: Splitspoon ASTM D-1586

Water Table: - 5.3'

Ground Elevation: 51.75'

Drilled by: JS/PR Compiled by: DY



Project: Suncoast Lakes Commercial

Location: Pond Boring

City / State: Pasco County, Florida

Report No: 189520

Log of Borehole: PB-107

Date Drilled: 1-24-07

Depth	Strata Symbol	Subsurface Profile Description	Consistency	Blow Count	N value	Standard Penetration Test Lab/ (blows/ft) Notes 0 20 40 60 80 100
0		Ground Surface Sand				
		Dark gray 10yr 4/1, fine grained with roots		·		
-		Sand Gray 10yr 6/1, fine grained	medium dense	5-6-11	17	
-		Sand	4			
		Brown 10yr 5/3, fine grained	medium dense	4-5-8	13	
5-		Sand Yellowish brown 10yr 5/6, fine grained				
		9	slightly loose	3-4-4	8	
		Sand	medium dense	5-5-6	11	
-		Pale brown 10yr 6/3, fine grained				
10			ļ	·	<u> </u>	
-			slightly loose	5-4-4	8	•
-						
-		~ #				
15-		Sand Dark brown 10yr 3/3, fine grained				
		, , , , , ,	medium dense	5-6-13	19	
-						
1						
20-		Sand				
		Dark yellowish brown 10yr 4/4, fine grained	medium dense	9-9-12	21	
			entra construction of the			
		Sand				
25		Brown 10yr 5/3, fine grained				
		· -	medium dense	3-5-9	14	
		End of Boring				
		End of Dorling				
30						

Notes: NRCS Soil Designation: Smyrna

NRCS SHGWT= 0.0' to -1.0'

CFTL SHGWT= ~ 1.0'

Drill Method: Rotary

Sampling Method: Splitspoon ASTM D-1586

Water Table: - 5.2'

Ground Elevation: 52.11'

Drilled by: JS/PR Compiled by: DY

Outparcel Borings

Central Florida Testing Laboratories, Inc. 12625 – 40th Street North, Clearwater, FL 33762



Client: GBY, Inc.

Project: Suncoast Lakes - SR52 Commercial

Location: State Route 52 & Suncoast Parkway

City / State: Pasco County, Florida

Report No: 178339

Log of Borehole: OB-101*

Date Drilled: 11/21/05

Depth	Strata Symbol	Subsurface Profile Description	Consistency	Blow Count	N value	Standard Penetration (blows/ft) 0 20 40 60 8	Notes	
0-	. '}' . ' . ' . '	Ground Surface Sand						
		Light gray, fine grained, with small roots. Sand White, fine grained, with trace small roots.	medium dense	6-8-8	16			
-		Sand Light brown, fine grained.	medium dense	4-6-6	12			
5			slightly loose	3-4-5	9			
		Sand	loose	2-2-4	6		:	
40		White, fine grained.						
10			slightly loose	2-3-5	8			
15		Sand Light brown, fine grained.					NATE 1 and 10 hours - mg	
10			medium dense	4-6-8	14			Mediatribera
		Sand Brown, fine grained.						Selection of the second second
					:			ericano de la companio della compani
20		Sand Light brown, fine grained.	medium dense	5-7-10	17		:	the state of the s
								SARKE STATE
								TOWER STREET
25		Sand Dark brown, fine grained.			-			hzapolikajomen
		San Slown, into granied.	medium dense	4-6-8	14			WARM SECTIONS
		End of Boring						CHARGEOMAN
					-			Mark Committee
30-								NAMES OF TAXABLE PARTY.
(A Property Con)								

Notes: ** Originally Labeled SPT-1

*Well points 60' north of boring - may affect water table.

Water Table: -7.0' bls* Ground Elevation: 54.8'

Drilled by: AC/AJ Compiled by: PG

Drill Method: Rotary

Sampling Method: Splitspoon ASTM D-1586



Client: GBY, Inc.

Project: Suncoast Lakes - SR52 Commercial

Location: State Route 52 & Suncoast Parkway

City / State: Pasco County, Florida

Report No: 178339

Log of Borehole: OB-102*

Date Drilled: 11/21/05

Depth	Strata Symbol	Subsurface Profile Description	Consistency	Blow Count	N value	Standard Penetration Test (blows/ft) 0 20 40 60 80 100	Lab/ Notes
0-		Ground Surface				:	
J-		Sand			:		
		Dark brown, fine grained.	medium dense	7-12-15	27		
-		Sand	medium dense	1-12-13	, 41 .		
-		Very pale brown, fine grained.	***************************************				
~		Sand	medium dense	4-7-10	. 17		
5		Dark brown, fine grained.	/				
			medium dense	3-4-6	10	•	
· ·			medium dense	3-5-6			
		Sand	medium dense	J-D-D	11		
		Brown, fine grained.			:		
10-		•					
.			medium dense	4-5-7	12		
1					1		
•							
15		Sand					
		Dark brown, fine grained.	loose	1-2-2	. 4		
		water with the granted.	Section Control of the Control of th				
					:		
					:		
20-					. ~		
-		Sand	very loose	1-1-1	. 2 .		
-		Brown, fine grained.					
•		with the plantam.			i.		
25					:		
25			very loose	1-1-2	3		
			101710000		: "		
-		Clayey Sand	:				
	P	Light brown, fine grained.					
			:				
30-	1	mmentamman kaladi sali sala mada mara 1979 di 1985 sara kanadan Masadi mada sasa mada kika saladi di mada kila					
		Clayey Sand	loose	2-2-2	4		
•		Brown, fine grained.					
		End of Boring			:		
	-						
35-							
I	!						

Notes: * Originally Labeled SPT-2

Water Table: -2.0' bls Ground Elevation: 52.6' Drilled by: AC/AJ

Compiled by: PG

Drill Method: Rotary

Sampling Method: Splitspoon ASTM D-1586



Notes:

Drill Method: Rotary

Sampling Method: Splitspoon ASTM D-1586

Client: Rizk Florida JV

Project: Suncoast Lakes Commercial

Location: Out Parcel

City / State: Pasco County, Florida

Report No: 189520

Log of Borehole: OB-103

Date Drilled: 1-29-07

Water Table: - 4.9'

Drilled by: PR/MS Compiled by: DY

Ground Elevation: 53.46'

Depth	Strata Symbol	Subsurface Profile Description	Consistency	Blow Count	N value	Standard Penetration Test Lab (blows/ft) Note	
0-		Ground Surface Sand					
		Gray, fine grained	medium dense	7-10-12	22		
		Sand White, fine grained		7-10-12			
			medium dense	6-9-8	17	•	
5		Sand	slightly loose	7-4-5	9		
		Dark brown, fine grained					
		Sand	medium dense	8-5-5	10		
		Brown, fine grained					į
10-			medium dense	3-5-7	12		
		Sand Light brown, fine grained					
		Eight brown, fine gramed					
15			medium dense	7-7-7	14		
		Sand Dark brown, fine grained					
				·			
20-			medium dense	6-7-12	19		
		Sand Brown, fine grained			······································		
		•					
25							
			medium dense	4-5-8	13		
		End of Boring					
30-				-			



Project: Suncoast Lakes Commercial

Location: Out Parcel

City / State: Pasco County, Florida

Report No: 189520

Log of Borehole: OB-104

Date Drilled: 1-24-07

Depth	Strata Symbol	Subsurface Profile Description	Consistency	Blow Count	N value			(blow	s/ft)	n Test 80 10	Notes
0		Ground Surface Sand Gray, fine grained with roots									- 12.3%
		Sand Dark gray, fine grained with organics	very loose	1-0-1	1 .	•					organic
5-		Sand Yellow, fine grained	slightly loose	2-3-4	. 7 .	•					
		Sand Pale brown, fine grained	slightly loose	3-4-4	8						
		,	medium dense	4-5-6	11) !				
10-		Sand Light yellowish brown, fine grained	slightly loose	5-3-4	7						
-			ongrity 1000c								
15		Sand Light brown, fine grained	medium dense	4-6-11	17		•		:		
20-		Sand Brown, fine grained	medium dense	6-4-12	16						
-	A property of the second secon	2.5.0, g.c	medium dense	0-4-12	16	:					
-		Sand									- ;
25 		Yellowish brown, fine grained	medium dense	3-5-5	10	0	, [:	: : : : : : : : : : : : : : : : : : :			***
	Prince and American Co. Co.	End of Boring				:					
30~								:			

Notes:

Water Table: - 4.7'

Ground Elevation: 51.38'

Drilled by: JS/PR Compiled by: DY

Drill Method: Rotary

Sampling Method: Splitspoon ASTM D-1586



Drill Method: Rotary

Sampling Method: Splitspoon ASTM D-1586

Client: Rizk Florida JV

Project: Suncoast Lakes Commercial

Location: Out Parcel

City / State: Pasco County, Florida

Report No: 189520

Log of Borehole: OB-105

Date Drilled: 1-29-07

Ground Elevation: 52.42'

Sheet 1 of 1

Drilled by: AC/KJ Compiled by: DY

Depth	Strata Symbol	Subsurface Profile Description	Consistency	Blow Count	value	Standard Penetration Test Lab/ (blows/ft) Notes 0 20 40 60 80 100
0		Ground Surface				
-		Sand Gray, fine grained with roots	medium dense	6-6-6	12	
		Sand Dark gray, fine grained				
5			medium dense	6-6-7	13	
			slightly loose	3-4-4	8	
-		Sand	loose	1-2-2	4	
10		Brown, fine grained				
			loose	2-3-3	; 6	
15-					:	
		Sand	medium dense	3-6-8	14	
		Light brown, fine grained				
20 -				11 - 12 - 14 - 14 - 14 - 14 - 14 - 14 -		
		Sand	medium dense	6-8-10	18	
		Gray, fine grained			- :	
		Sand			1	
25		Light brown, fine grained	medium dense	6-7-6	13	
		End of Boring				
	1					
30					: : :	
N	otes:				Wa	ater Table: - 4.8'

Publix Borings

Central Florida Testing Laboratories, Inc. 12625 – 40th Street North, Clearwater, FL 33762



Project: Suncoast Lakes Commercial

Location: Publix

City / State: Pasco County, Florida

Report No: 189520

Log of Borehole: XB-101

Date Drilled: 1-29-07

Depth	Strata Symbol	Subsurface Profile Description	Consistency	Blow Count	N value	Standa	(blo	enetrati ows/ft) 60			Lab/ Notes
0-	.1	Ground Surface									
) 	Sand					<u> </u>				!
		Gray, fine grained with roots	medium dense	10-13-10	23	G.					:
		Sand							ļ		{ !
		Light brown, fine grained									
		Sand	loose	3-2-4	6				<u> </u>	-	
5		Brown and dark brown, fine grained with							<u> </u>		6.4%
		trace organics	very loose	2-1-2	3	9			ļ Ļ		organic
	بنيب										:
		Sand	loose	3-3-2	5	8					-
-		Dark brown, fine grained with trace clay	10086	U-U-Z					<u> </u>		
					-				ļi		
10			and a state of motor and a second state of the state of t								
			slightly loose	3-3-4	7			:	l) 	
		Sand							·	ļ	
		Dark brown, fine grained			i				+ + + + + + + + + + + + + + + + + + +		
						:					1
						······································			*		
15-							- :		<u> </u>		
			slightly loose	3-3-5	8				<u>i i</u>	ļi	1
			:		:					ļ	•
		Sand							<u> </u>	<u> </u>	i de la companya de l
		Light brown, fine grained									:
							:				
20-			medium dense	4-5-6		i aaaaadaaaka	··i· ·	,,,,, - ,	dan okaan Tabu		:
			medium dense	4-0-0	11						
-	[· :		: :
-	ļ:::::::	Sand	:				<u> </u>		<u></u>		
•	{:::::::::	Light gray, fine grained	:				: 			1	
25-							i				
20			slightly loose	5-4-4	8	•	1				
•		End of Boring				:		i	- <u> </u>	1 :	
	-					· · · · · · · · · · · · · · · · · · ·				ļ	
•			:						<u> </u>	 	-
30-									<u> </u>	<u>l</u> i_	

Notes:

Water Table: - 3.7'

Ground Elevation: 50.65'

Drilled by: PR/MS Compiled by: DY

Drill Method: Rotary

Sampling Method: Splitspoon ASTM D-1586



Project: Suncoast Lakes Commercial

Location: Publix

City / State: Pasco County, Florida

Report No: 189520

Log of Borehole: XB-104

Date Drilled: 1-29-07

Depth	Strata Symbol	Subsurface Profile Description	Consistency	Blow Count	N value	Standard Penetration Test Lab/ (blows/ft) Notes 0 20 40 60 80 100
0		Ground Surface	Ţ			
	3	Sand Dark gray, fine grained with roots	loose	1-2-2	4	
		Sand Black, fine grained with organics	very loose	1-1-1	2	a 11.0% organic
5			very loose	1-1-2	3	
		Sand	very loose	1-1-1	2	
40		Rusty brown, fine grained				
10 -			loose	1-1-3	4	
15-	Sand Brown, fine grained		modium dopoo	E & O	44	
		blown, line granted	medium dense	5-6-8	14	
			-			
20		Occur	medium dense	4-6-6	12	
		Sand Light brown, fine grained				
~~						
25 – -			medium dense	4-5-6	11	•
		End of Boring			1	
					:	
30-						
No	tes:				\/\	vater Table: - 1.5'

Water Table: - 1.5'

Ground Elevation: 48.45'

Drilled by: AC/KJ Compiled by: DY

Drill Method: Rotary

Sampling Method: Splitspoon ASTM D-1586



Project: Suncoast Lakes Commercial

Location: Publix

City / State: Pasco County, Florida

Report No: 189520

Log of Borehole: XB-105

Date Drilled: 1-29-07

Depth	Strata Symbol	Subsurface Profile Description	Consistency	Blow Count	N value	Standard Penetration Test Lab/ (blows/ft) Notes 0 20 40 60 80 100
0-		Ground Surface Organics				
		Muck with roots				
		Sand	loose	1-2-2	4	•
		Rusty brown, fine grianed	slightly loose	4-4-4	. 8	
5		Sand Black, fine grained with organics	very loose	1-1-2	3	8.1% organic
			slightly loose	2-3-4	7	
10		Sand				
		Brown, fine grained	slightly loose	2-3-5	8	
15-						
			loose	2-3-3	6	
					-	
20-		Sand Dark brown, fine grained			· · - · · · · · · · · · · · · · · · · ·	
		, ,	medium dense	5-8-10	18	
					i i	
-					: :	
25-				0.40.40		
		Dad (60-3)	medium dense	8-10-12	22	
		End of Boring				
			\$ part			
30-		ORID MODERN FOR THE CASE OF TH				
Not	tes:	**************************************			W	ater Table: - 2.5'

Drill Method: Rotary

Sampling Method: Splitspoon ASTM D-1586

Water Table: - 2.5'

Ground Elevation: 49.47'

Drilled by: AC/KJ Compiled by: DY



Project: Suncoast Lakes Commercial

Location: Publix

City / State: Pasco County, Florida

Report No: 189520

Log of Borehole: XB-106

Date Drilled: 1-29-07

Depth	Strata	Subsurface Profile Description	Consistency	Blow Count	N value	Standard Penetration Test Lab (blows/ft) Note 0 20 40 60 80 100	
0	<u> </u>	Ground Surface Sand			:		
-		Light gray, fine grained	, i			9.3%	
-		Sand	loose	1-2-2	4	organic	¥
-		Light gray and brown, fine grianed with organics	/				
-		Organics	medium dense	2-5-6	11		
5		Muck	/				
]::::::	Sand	loose	4-3-2	5	•	
		Light brown, fine grained					
		1990 - P. Maria and A. Maria an	very loose	2-1-2	3	•	
					;		
10	٠						
			very loose	WOH+6'	0		
	المناجدة	Sand	N				
		Dark brown, fine grained with organics					
_	المنهرا . منذ المام المناس		:				
15 –							
			medium dense	0-5-9	14	6.5% organic	
					~		
20-					:		
2.0			medium dense	10-8-14	22		
		Sand Gray, fine grained					
		oray, mo granica					
25							
2.0			medium dense	8-12-10	22		
		End of Boring					
			1		:		
			:				
30					1000 TO 100 TO 1		

Notes: WOH= weight of hammer

Water Table: - 5.8'

Ground Elevation: 52.34'

Drilled by: PR/MS Compiled by: DY

Drill Method: Rotary

Sampling Method: Splitspoon ASTM D-1586



Project: Suncoast Lakes Commercial

Location: Publix

City / State: Pasco County, Florida

Report No: 189520

Log of Borehole: XB-107

Date Drilled: 1-29-07

Depth	Strata Symbol	Subsurface Profile Description	Consistency	Blow Count	N value		(blov		Test 30 100	Lab/ Note
0		Ground Surface					4		4	
_		Sand Gray, fine grained		·						
	Oldy, fine gran	Oray, thie granieu	medium dense	10-9-12	21			<u> </u>		
		Sand Light brown, fine grained								
			medium dense	3-7-4	11	•		<u>: </u>		
5						: /L.I.				
		Sand	very loose	1-1-1	2	•				
		Dark brown, fine grained with trace clay	,							
-			loose	2-3-2	5	. (8)		<u> </u>		
_	<u> </u>					<u></u>	<u>.</u>	: :		
0			slightly loose	3-4-5	9			· · · · · · · · · · · · · · · · · · ·		
	Sand Dark brown, fine grained		Signly 100se				:	•		
							- !	· · · · · · · · · · · · · · · · · · ·		
5										
		banchown, fine grained	medium dense	5-5-8	13	•		: 		
					. <u>_</u>					
							···· ··· ··· · · · · · · · · · · · · ·			
						1		<u> </u>		
0				: 						
		medium dense	3-4-6	10			<u>ii</u>			
					· .					
			·		:					
	Sand Brown, fine grained				<u>i.</u>	······································				
5		loose	3-2-3	5			<u></u>			
****				U-2-U	J	: ;			· · · · · · · · · · · · · · · · · · ·	
		End of Boring								
0						:				

Notes:

Water Table: - 3.8'
Ground Elevation: 50.91'
Drilled by: PR/MS

Compiled by: DY

Drill Method: Rotary

Sampling Method: Splitspoon ASTM D-1586

SITE PHOTOGRAPHS

Central Florida Testing Laboratories, Inc. 12625 – 40th Street North, Clearwater, FL 33762









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