Memorandum

To: *SJRWMD*

From: *CDM Smith*

Date: *September 29, 2017*

Subject: *Lower Floridan Aquifer Performance Test (APT), City of Ocala Southern Wellfield Located at WTP2*

Background

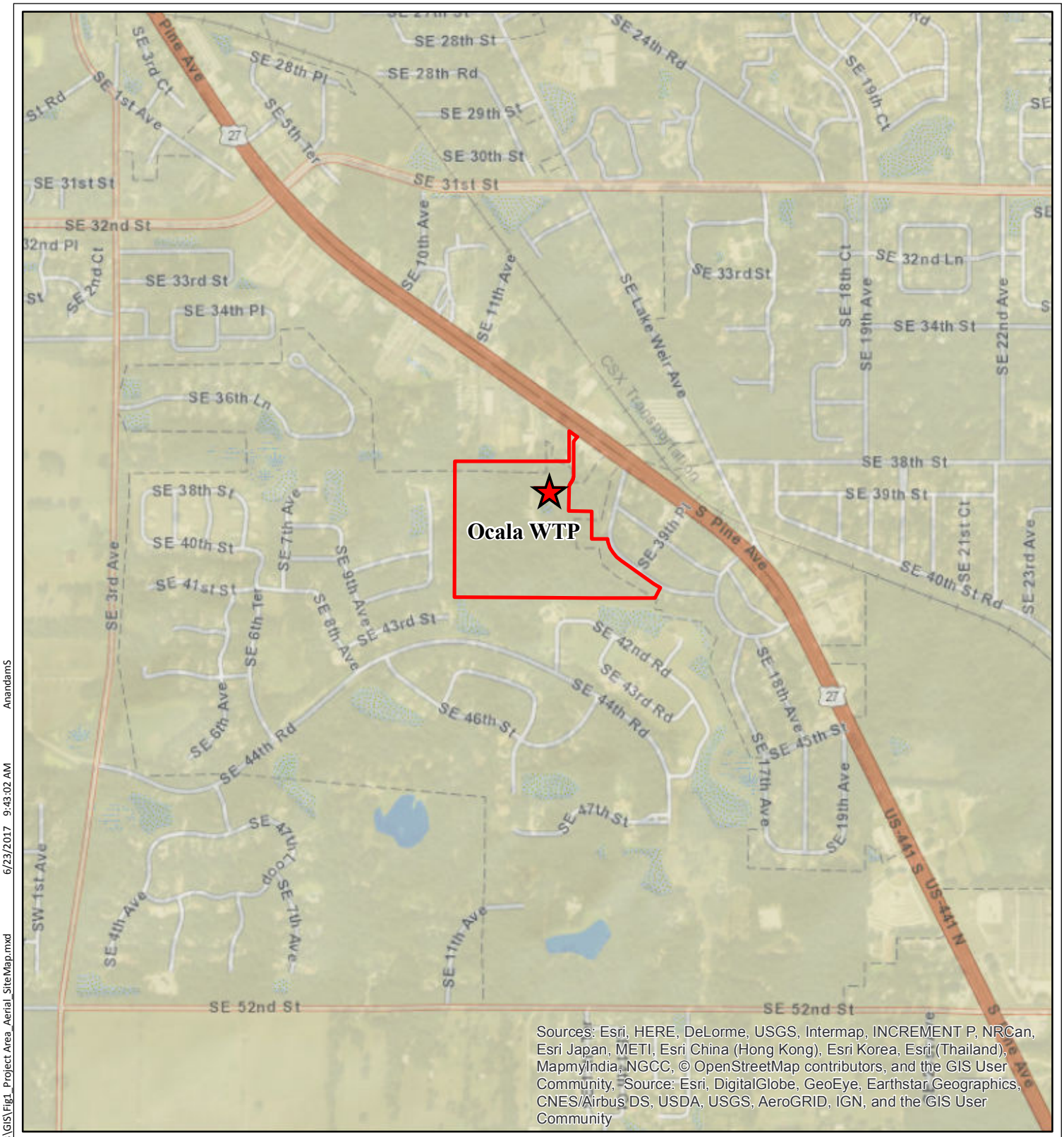
CDM Smith under contract to the St. Johns River Water Management District (SJRWMD) assisted with development of the aquifer performance test (APT) plan, field data collection and analysis of the APT data at the City of Ocala southern wellfield located at Water Treatment Plant No. 2 (WTP2). The City of Ocala WTP2 and southern wellfield are located on U.S. Highway 27 approximately 0.75 miles south of the intersection with SE 31st Street (3706 South Pine Avenue) as shown on **Figure 1**.

The hydraulic characteristics from the APT will be used by the SJRWMD to increase their understanding of the Lower Floridan aquifer (LFA) as a long-term alternative water source and to refine their groundwater flow models. The approved work authorization for this project included a LFAPT and associated groundwater quality analysis. Due to the unexpectedly high transmissivity of the LFA and an inability to accurately estimate leakance across middle confining unit I (MCU I), a second APT was conducted in a permeable portion of MCU I. This memo describes the data that was collected as part of the two APTs.

Hydrogeology

Published Regional

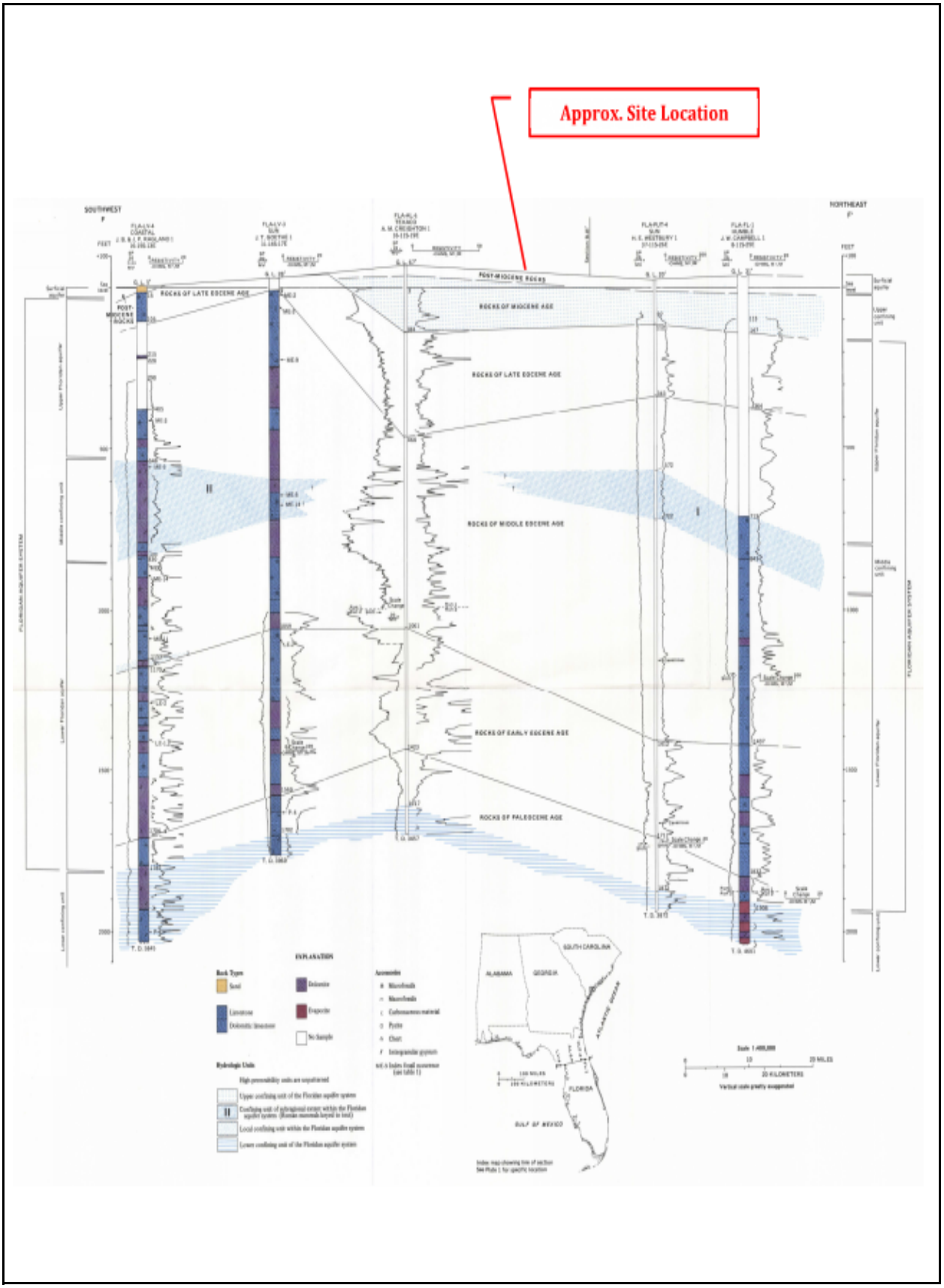
From U.S. Geological Survey (USGS) Professional Paper 1403-B (Miller, 1986), the Floridan aquifer system (FAS) is subdivided into the Upper Floridan aquifer (UFA) and LFA that are hydraulically separated by a confining unit of relatively low permeable rocks. In this part of Marion County, the confining unit consists of interbedded micritic limestones or mudstones that form a composite unit having sufficiently lower permeability and was referenced as MCU I by Miller (1986). **Figure 2** shows the approximate site location on a hydrogeologic cross section through north-central Florida from Professional Paper 1403-B.



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Figure 1
Site Location Map
City of Ocala Lower Floridan Aquifer Performance Test



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Figure 2
Regional Hydrogeologic Cross Section
through the Ocala Area (From Miller, 1986)
City of Ocala Lower Floridan Aquifer Performance Test

Site-Specific

A test well was constructed at the Ocala WTP2 site in 2011 under contract to the City of Ocala to assess the feasibility of using the LFA as a future alternative water supply source. This well was drilled to a depth of 1,324 feet below land surface (bls); however, the borehole collapsed resulting in a final completed depth of 1,296 feet bls. The collapsed interval was in a highly fractured dolostone that occurs in the Oldsmar Formation.

Laboratory analytical results of water quality samples collected from 1,069 to 1,296 feet bls during a limited 2-hour APT indicated that the LFA could be used as a potable water source with limited treatment. Only total dissolved solids exceeded drinking water standards in the water sample collected from the LFA.

In October 2015, the District contracted a drilling firm (Huss Drilling, Inc.) to construct a test borehole to continuously sample the subsurface to the anticipated depth of the APT production well in the LFA. The purpose of this test borehole was to characterize the subsurface lithology, estimate specific capacity, and collect discrete water quality samples.

Lithologic samples were collected by split spoon from 5 feet bls to 20 feet bls and by 2.5-inch diameter whole rock core to a total depth of 1,250 feet bls. The samples were shipped to the Florida Geological Survey (FGS) for examination, description and storage. According to the FGS descriptions the tops of the stratigraphic units encountered in the test borehole are as follows:

- 5 feet bls Hawthorn Group;
- 10 feet bls Ocala Limestone;
- 137 feet bls Avon Park Formation; and,
- 1,027 feet bls Oldsmar Formation.

Attachment A contains the FGS lithologic data report along with representative photographs of the cores collected.

After a 30-foot length of core was recovered, the borehole was cleaned out by airlifting and an inflatable packer with a submersible pump was set at the top of the interval to perform a specific capacity test (SCT). Prior to pumping the interval isolated by the packer a static water level was recorded and is provided as **Figure B-1** in **Attachment B**.

The packed off open hole interval was pumped at a maximum rate of 30 gallons per minute for approximately 30 minutes. The water level was measured at the end of the SCT and was used to calculate drawdown and the specific capacity of the 30-foot interval in gallons per minute per foot of drawdown (gpm/ft drawdown). **Figure B-2** in Attachment B is a graph depicting the results of

the SCTs for the borehole. The measured values for specific capacity ranged from 13.51 to 0.06 gpm/ft drawdown.

Water quality was evaluated within the 30-foot packer test interval by collecting a discrete water sample from the discharge pipe after the SCT. Temperature, specific conductivity, pH, chloride and sulfate were measured in the field during each SCT and are summarized in **Figure B-3** in Attachment B.

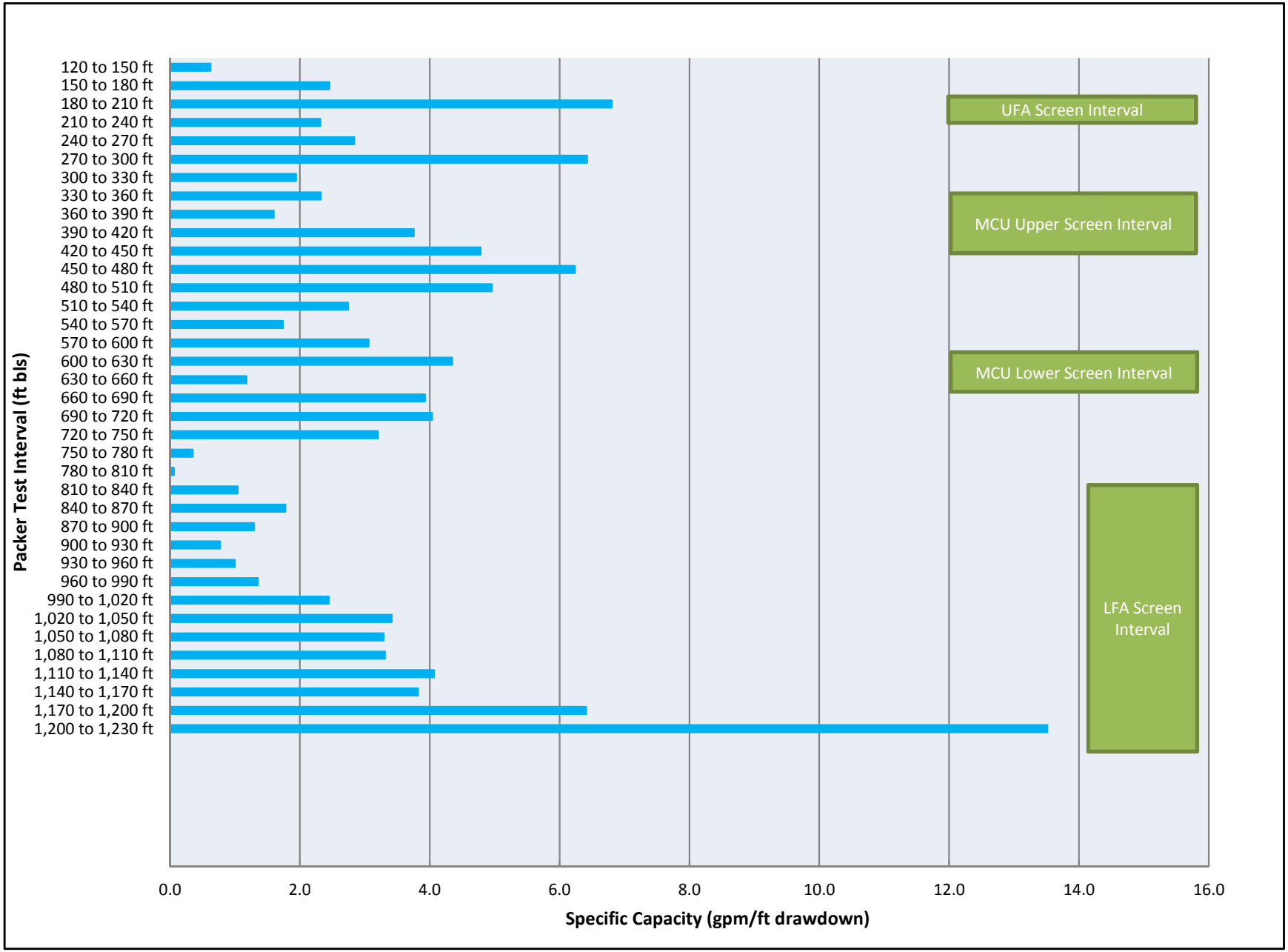
Based on the information obtained from the borehole, the hydrostratigraphic units present at the Ocala WTP2 site include:

- The Upper Floridan aquifer ranges from the saturated portion of the Ocala Formation (approximately 75 feet bls) to 300 feet bls;
- Middle Confining Unit (MCU I) from 300 to 720 feet bls; and,
- Lower Floridan aquifer from 720 to 1,282 feet bls.

APT Well Network

Based on a review of the exploratory corehole data (specific capacity, water level and water quality data from packer testing, physical inspection of lithologic data for hydraulic properties and geophysical logging) the top of the UFA occurs at approximately 75 feet bls extending to 300 feet bls. The top of the MCU I extends from approximately 300 feet bls to 720 feet bls. The top of the LFA extends from 720 feet bls to greater than 1,282 feet bls. The open hole intervals were selected based on the specific capacity measurements at different depth during the packer testing in the corehole. Specific capacity versus depth from the corehole packer testing is presented on **Figure 3**. The selected borehole intervals for the monitor wells and test generally correlate with the higher specific capacity intervals that further define the hydrogeologic units (UFA, MCU, and LFA) at the site as shown on Figure 3. The as-built construction details for LFA Test Production Well (TW-1) and monitor wells determined by SJRWMD and CDM Smith from available hydrogeologic data and onsite corehole are presented in **Table 1**.

The locations of the pumping well and all monitor wells used for the APT are shown on **Figure 4**. As noted earlier, monitor wells are collocated as a vertically nested cluster in the UFA, MCU, and LFA. TW-1 is completed into the upper portion of the LFA. Monitor well open hole intervals are designed to monitor water levels in a narrow range (base of UFA, 3 intervals in the MCU I and the pumping interval of the LFA). All well locations and top of casing elevations have been surveyed using both vertical and horizontal controls by a professional land surveyor and mapper registered in the State of Florida.



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Figure 3
Specific Capacity of Different Intervals in the Corehole (M-0796) During Packer Testing

Table 1 Well Names, Construction Details and Coordinates for the City of Ocala WTP 2 Lower Floridan Aquifer Performance Test

District Well ID	SJR Station ID	Well ID	Use	Total Depth (feet bls)	Casing Depth (feet bls)	Casing Diameter (inches)	Distance from Pumping Well (feet)	Status	Approximate UTM Coordinates (m) [1]		Geographic Coordinates (DMS)	
									Northing	Easting	Latitude	Longitude
M-0811	457223	TW-1	Pumping	1,277	810	24	NA	Existing	3,225,022	390,945	29° 08' 56.678"	82° 07' 16.483"
M-0812	457224	UFA MW-1	Monitoring	220	170	4	49	Existing	3,225,027	390,958	29° 08' 56.837"	82° 07' 15.961"
M-0813	457225	MCU MW-1a	Monitoring	450	400	6	50	Existing	3,225,031	390,956	29° 08' 56.98"	82° 07' 16.037"
M-0814	457226	MCU MW-1b	Monitoring	650	600	6	63	Existing	3,225,024	390,963	29° 08' 56.762"	82° 07' 15.777"
M-0703	104869	LFA MW-1	Monitoring	1,292	1,070	6	50	Existing	3,225,034	390,953	29° 08' 57.086"	82° 07' 16.166"
M-0815	457229	UFA MW-2	Monitoring	220	170	4	98	Existing	3,225,002	390,923	29° 08' 55.996"	82° 07' 17.255"
M-0816	457230	MCU MW-2a	Monitoring	370	320	6	98	Existing	3,224,996	390,931	29° 08' 55.807"	82° 07' 16.97"
M-0796	455437	MCU MW-2b	Monitoring	650	600	6	94	Existing Core [2]	3,224,999	390,927	29° 08' 55.922"	82° 07' 17.098"
M-0817	457231	LFA MW-2	Monitoring	1,242	790	6	126	Existing	3,224,998	390,913	29° 08' 55.913"	82° 07' 17.6"

Notes:

[1] Universal Transverse Mercator Zone 17 North

[2] Backplug existing corehole from 1,230 to 650 feet bls and convert to monitor well

DMS means degrees, minutes, seconds



Legend

- Pumping Well
- Monitor Well

N
W E
S

0 25 50
Feet

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Figure 4
Aquifer Performance Test Well Locations
City of Ocala Lower Floridan Aquifer Performance Test

Drawdown Versus Time Data

Step Drawdown Test for LFA TW-1

After installation and development of the LFA TW-1, a step drawdown test was performed to determine the optimal pumping rate for the constant rate discharge APT. The step drawdown test for the LFA TW-1 was performed on April 4, 2017. Graphs showing drawdown vs. time from the step drawdown test for TW-1 are presented on **Figure 5**. CDM Smith evaluated well performance and estimated LFA hydraulic characteristics in accordance with the approved APT Plan (CDM Smith, 2016). The test consisted of an 8-hour step drawdown test conducted at 62 percent, 84 percent, 91 percent, and 102 percent of the estimated 3,500 gpm capacity of the well. The pumping period for each step was a minimum of 1 hour up to a maximum of 2.5 hours. The steps were conducted in succession, increasing the pumping rate with each successive step. Water levels were determined to the nearest 0.01 foot utilizing a data logging pressure transducer (transducer) and an electric water level probe. Manual water level readings with electric water level probes were used at the time of placement of transducers to allow water depth to elevation conversion based on the results of the site elevation survey.

Upon completion of the step drawdown test, the pump was stopped and recovery water levels were monitored. Recovery water level data was collected for a 27-hour period or until water levels recovered within 0.1 feet of the initial static water level. The frequency of measurement for pumping and recovery phases met the schedule for conducting step drawdown testing in the approved APT plan. Specific capacity was used to estimate transmissivity of the production zone of the LFA using the confined aquifer equation presented in Groundwater and Wells (Sterrett, 2007), as follows:

$$Q/s = T/2{,}000$$

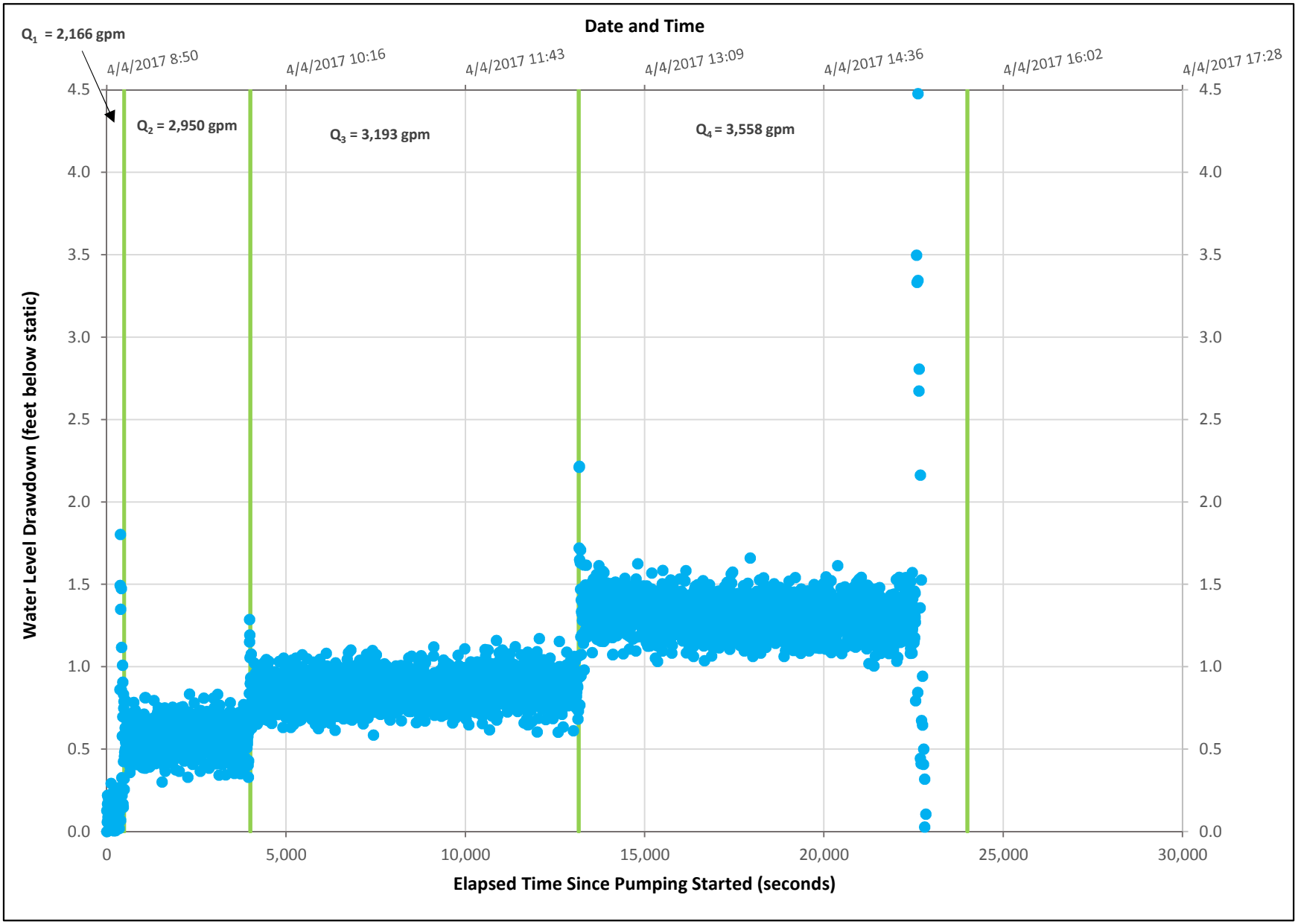
Where:

T = *transmissivity in gallons per day per foot;*

s = *drawdown in the well in feet; and*

Q = *well pumping rate in gallons per minute.*

Transmissivity estimated using this empirical equation is compared to transmissivity estimates from analysis of the step drawdown test data using methods developed by Theis, Cooper-Jacob and Hantush-Jacob using the AQTESOLV® software (Duffield, 2007) and is summarized in **Table 2**.



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Figure 5
Drawdown versus Time Data for the TW-1
Step Drawdown Test, City of Ocala WTP 2

Table 2 Results of Step Drawdown Testing of TW-1

Step	Elapsed Time, t_e (minutes)	Incremental Time, t_{inc} (minutes)	Flow Rate, Q (gpm)	Maximum Drawdown, s_{max} (feet)	Average Drawdown, s_{avg} (feet)	Specific Capacity [1], Q/S_{max} (gpm/ft)	Transmissivity, T [2]		Solution Method	
									Theis	
							(gpd/ft)	(ft^2/day)	(gpd/ft)	(ft^2/day)
1	8	8	2,166	0.29	0.23	7,418	14,835,616	1,983,106	7,936,280	1,061,000
2	67	59	2,950	0.81	0.57	3,633	7,266,010	971,262		
3	219	153	3,193	1.12	0.87	2,848	5,696,699	761,489		
4	376	156	3,558	1.66	1.31	2,143	4,286,747	573,018		
						Average	**8,021,268**	**1,072,219**		

Notes:

[1] Specific capacity is calculated for each step using maximum observed drawdown

[2] Transmissivity is calculated using an emprical method based on Theis equation T = 2000 *Q/smax (Sterrett 2007)

The Step Drawdown Test was performed on April 4, 2017 from 8:50 am to 3:53 pm

Lower Floridan Aquifer APT for TW-1

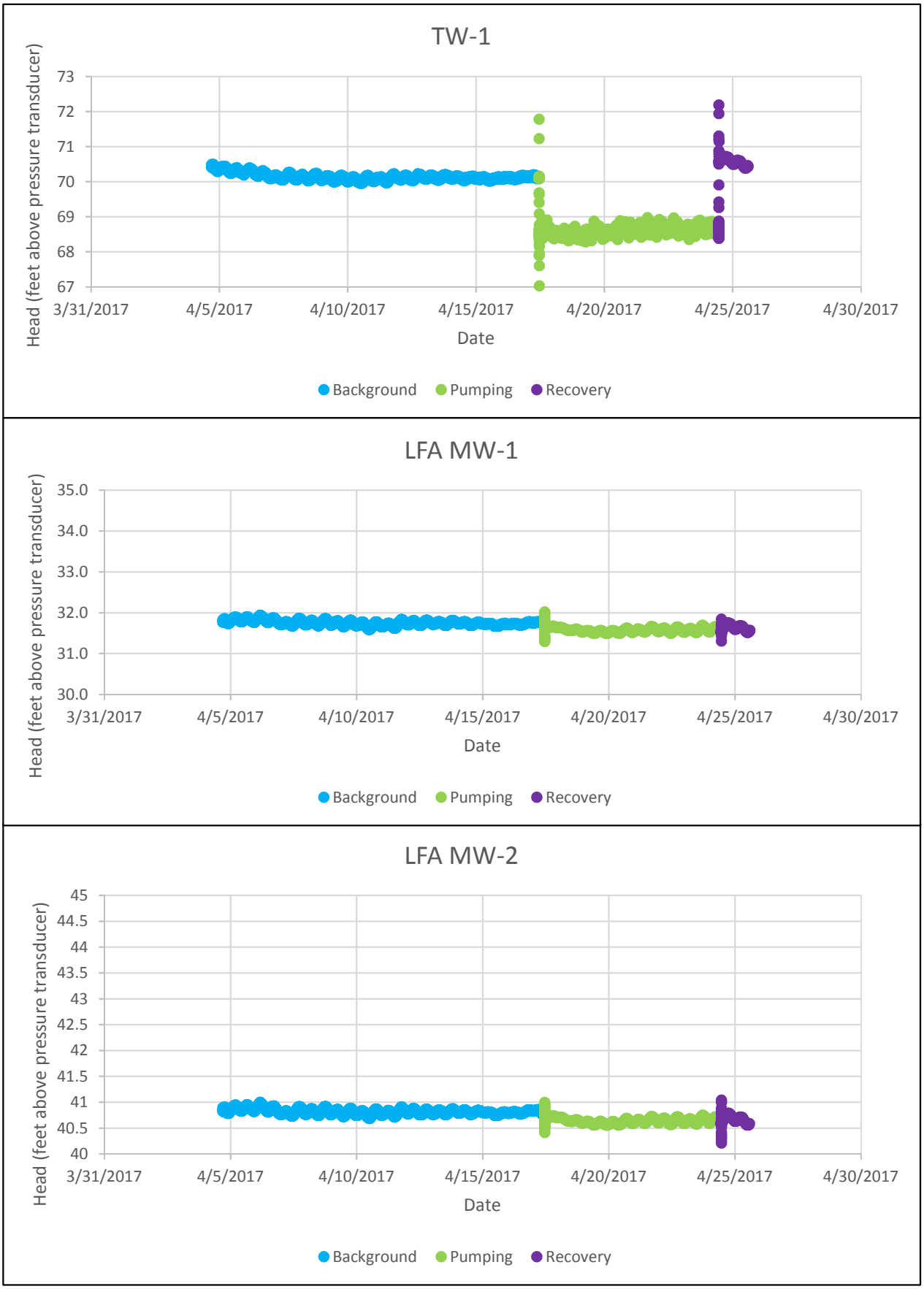
The water level data recorded during background, pumping and recovery for TW-1 (pumping well), LFA MW-1 (located 50 feet away) and LFA MW-2 (located 126 feet away) during the LFA APT are presented on **Figure 6**. Background monitoring began on April 4th (at 3:30 pm) and continued for approximately 13 days when pumping began on April 17th (at 10:10 am). TW-1 was pumped at a continuous rate of 3,667 gpm for approximately 7 days (167 hours). The maximum drawdown was approximately 1.6 feet at TW-1, 0.1 feet at LFA MW-1 and 0.1 feet at LFA MW-2. The pumping phase was terminated on April 24, 2017 and recovery was monitored for approximately 31 hours. Recovery took approximately 4 minutes in the pumping well and approximately 3.5 hours and 7.1 hours in LFA MW-1 and LFA MW-2, respectively.

The water level data recorded during background, pumping and recovery for MCU MW-1a (installed to a depth of 450 feet and 50 feet away) and MCU MW-2a (installed to a depth of 370 feet and 98 feet away) during the LFA APT are presented on **Figure 7**. The water level data recorded during background, pumping and recovery for MCU MW-1b (installed to a depth of 650 feet and 63 feet away) and MCU MW-2b (installed to a depth of 650 feet and 94 feet away) during the LFA APT are presented on **Figure 8.**

The water level data recorded during background, pumping and recovery for UFA MW-1 (installed to a depth of 220 feet and 49 feet away) and UFA MW-2 (installed to a depth of 220 feet and 98 feet away) during the LFA APT are presented on **Figure 9.** There was no measurable drawdown in the MCU or UFA monitor wells during the LFA APT, likely due to a combination of the extremely high transmissivity in the LFA and low permeability zones within the MCU I.

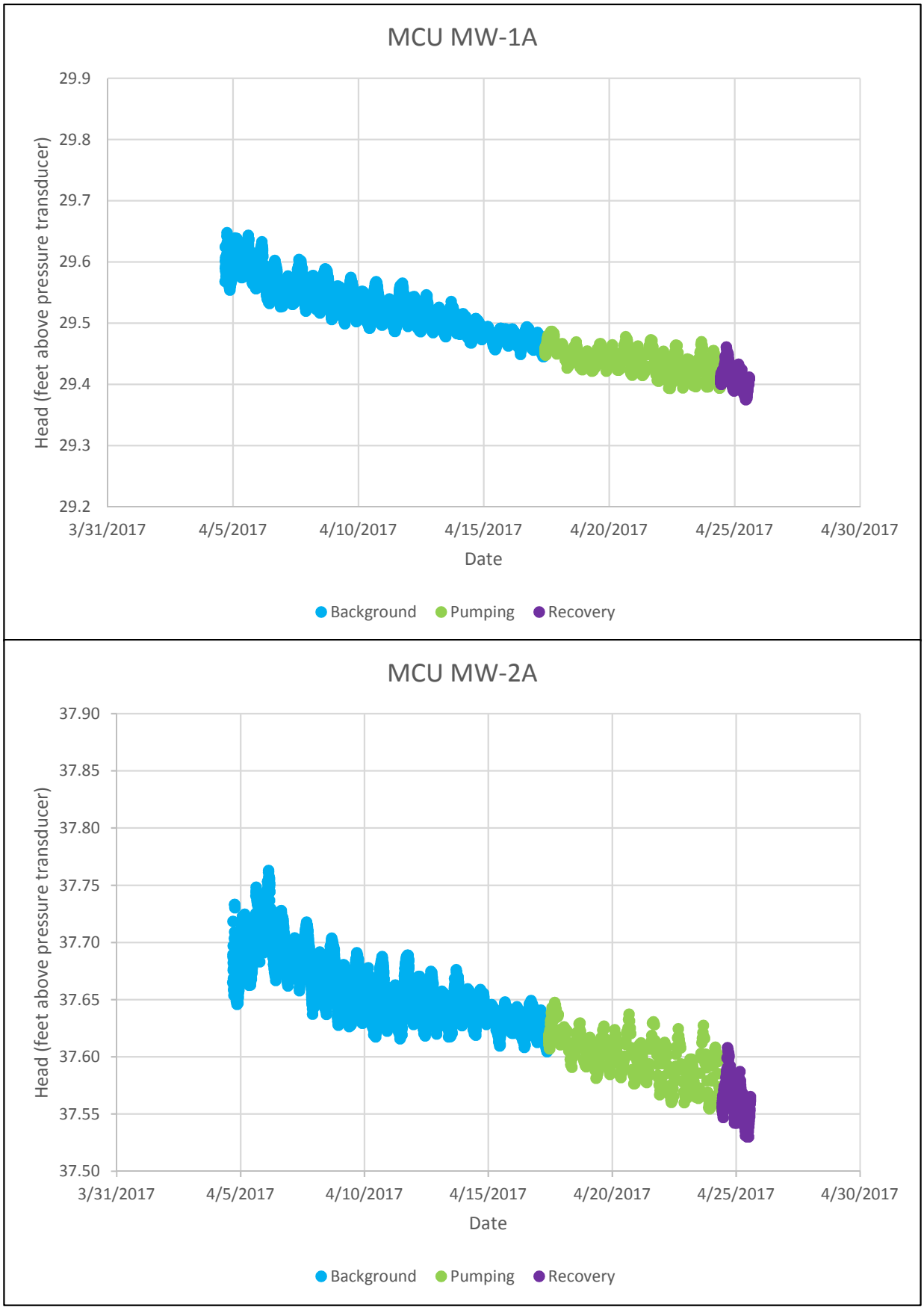
Regional groundwater level data for the UFA (M-0528) and LFA (M-0788) were provided by SJRWMD from January through May 2017 (see **Figure C-1** in **Attachment C**). The locations of these two regional monitor wells relative to City of Ocala TW-1 are presented on **Figure 10**. The data show a continuous decrease in water levels in the UFA (1.4 feet) and in the LFA (2.0 feet) over this five-month period. Groundwater levels in the two regional monitor wells during April 2017, when the LFAPT was conducted are presented on **Figure 11**. The pumping and recovery phases of the LFAPT are shown on this figure and indicate that there was 0.07 feet of groundwater level decrease in the UFA and 0.12 feet of decrease in water levels in the LFA during the 7-day pumping phase of the APT.

After reviewing the data closely, it was decided that the background water level decrease observed in M-0788 would not be subtracted from the groundwater level drawdown data from the APT monitor well data for the following reasons. First, there is a fair amount of fluctuation in groundwater elevations after the second day of pumping for the duration of the APT. Second, by not filtering out the background regional data the results represent conservative (lower transmissivity values) since less drawdown would only increase transmissivity values. Finally, using just the APT data (without subtracting the regional groundwater level decline) we are approaching the point where estimation of aquifer characteristics may not be that accurate given the small amount of observed groundwater level drawdown (0.1 feet) in the LFA monitor wells.



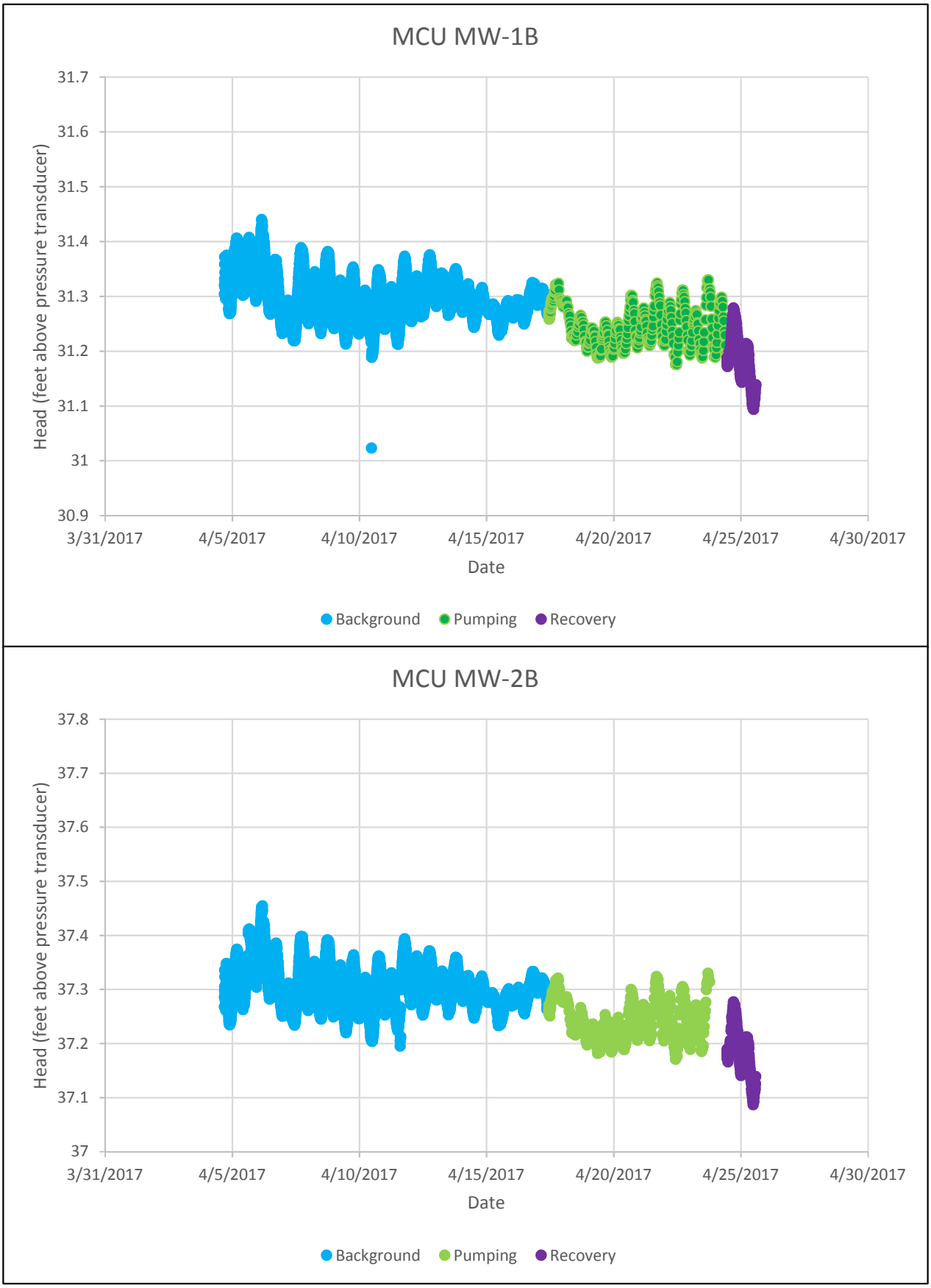
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Figure 6
Groundwater Head versus Time for TW-1, LFA MW-1 and LFA MW-2 During the LFA APT, City of Ocala



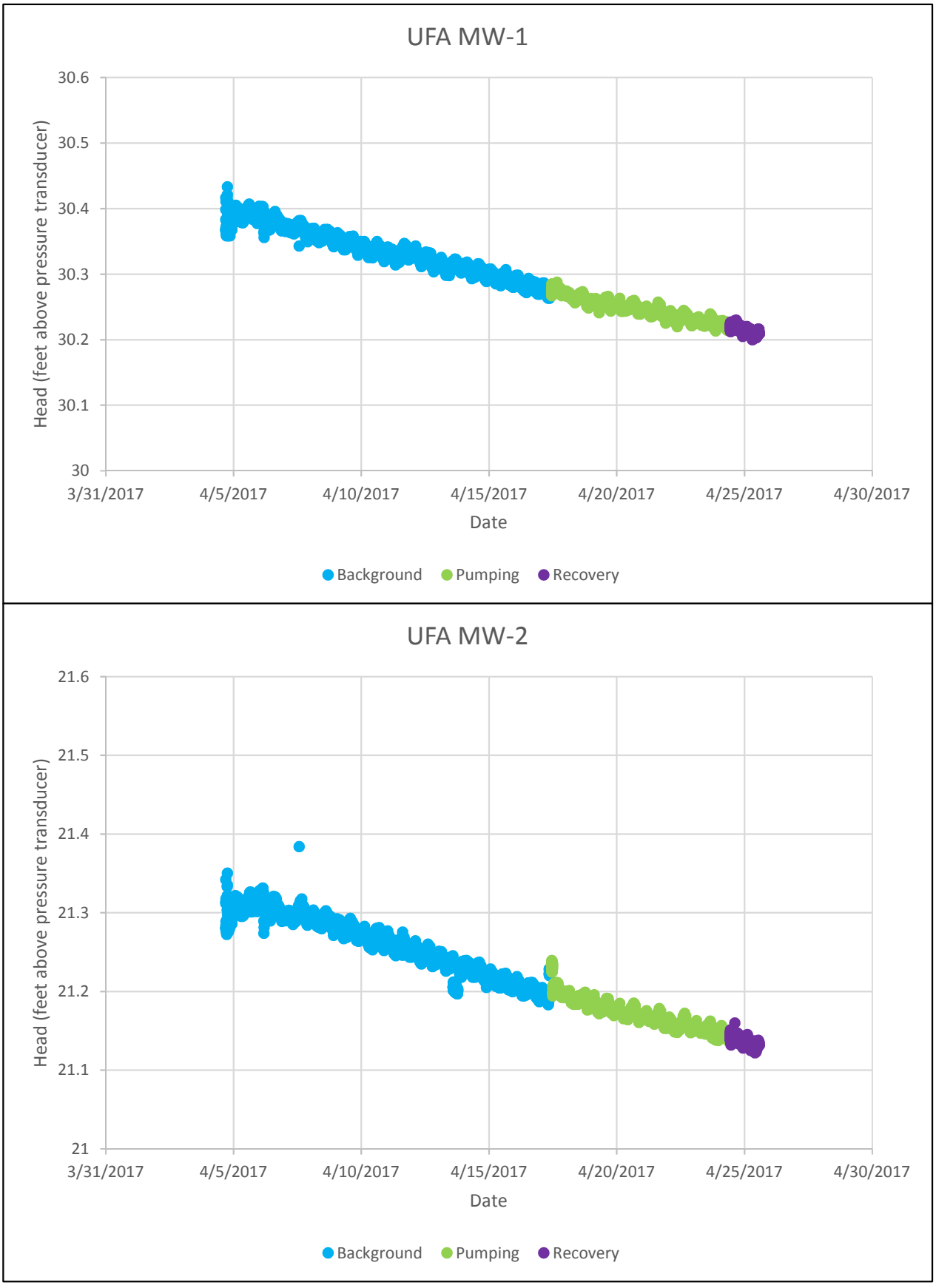
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Figure 7
Groundwater Head versus Time for MCU MW-1A and MCU MW-1B During the LFA APT, City of Ocala



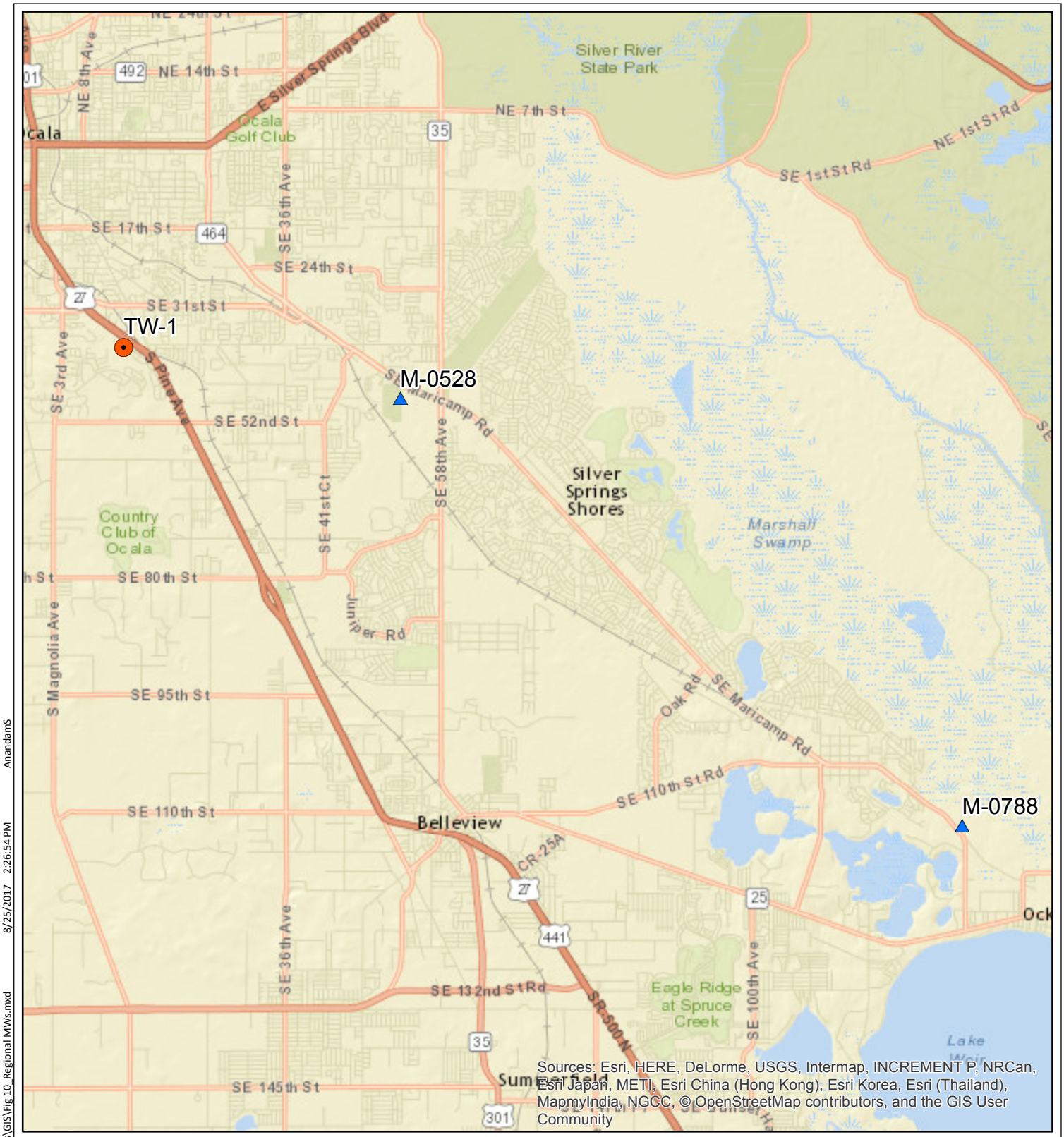
CDM Smith

Figure 8
Groundwater Head versus Time for MCU MW-1B and MCU MW-2B During the LFA APT, City of Ocala



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Figure 9
Groundwater Head versus Time for UFA MW-1 and UFA MW-2 During the LFA APT, City of Ocala



Legend

- Ocala Lower Floridan Aquifer Test Well
- Regional Monitor Well

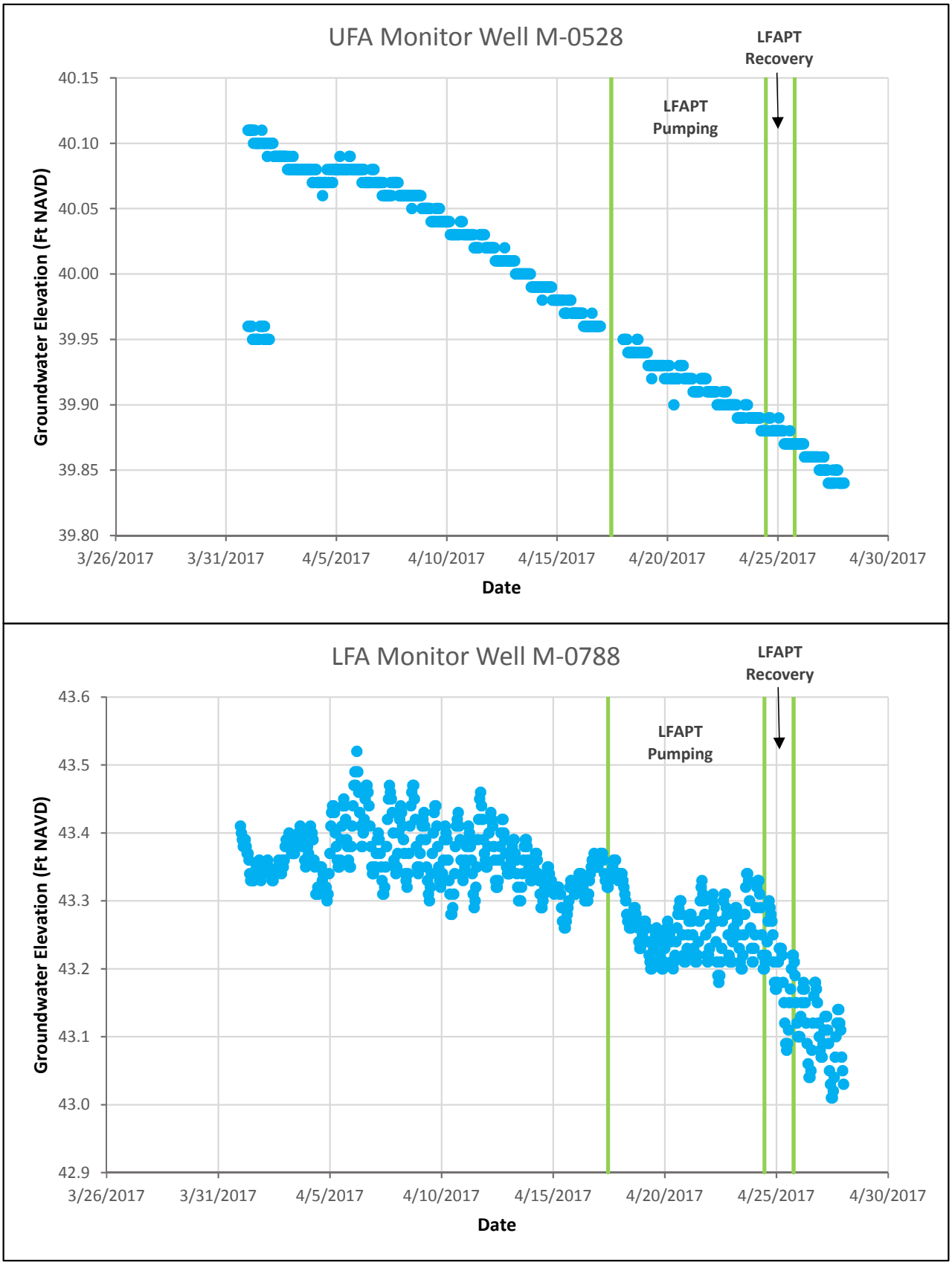
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Figure 10
Location of Regional Floridan Aquifer Monitor Well Relative to Ocala Lower Floridan Aquifer Test Well
City of Ocala



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Figure 11
Groundwater Level Fluctuations in Regional Upper and Lower Floridan Aquifer Monitor Wells During the Lower Floridan Aquifer Performance Test

MCU APT for MCU MW-1b

The water level data recorded during pumping and recovery for MCU MW-1b as the pumping well and the companion MCU MW-2b installed at the same depth and 144 feet away during the MCU APT are presented on **Figure 12.** Pumping began on May 4th (at 9:15 am) and MCU MW-1b was pumped at a continuous rate of 78 gpm for approximately 1 day (26 hours). The maximum drawdown was approximately 38.1 feet at MCU MW-1b and 0.8 feet at MCU MW-2b. The pumping phase was terminated on May 5, 2017 at 11:33 am and recovery was monitored for approximately 68 hours. Recovery took approximately 7.5 hours in the pumping well and approximately 11.9 hours in MCU MW-2b.

The water level data recorded during pumping and recovery for MCU MW-1a (installed to a depth of 450 feet and 32 feet away) and MCU MW-2a (installed to a depth of 370 feet and 140 feet away) during the MCU APT are presented on **Figure 13**. The water level data recorded during pumping and recovery for LFA MW-1 (installed to a depth of 1,292 feet and 46 feet away) and LFA MW-2 (installed to a depth of 1,242 feet and 185 feet away) during the MCU APT are presented on **Figure 14**. The water level data recorded during pumping and recovery for UFA MW-1 (installed to a depth of 220 feet and 19 feet away) and UFA MW-2 (installed to a depth of 220 feet and 150 feet away) during the MCU APT are presented on **Figure 15**. There was no measurable drawdown in the upper portion of the MCU, LFA or UFA monitor wells during the MCU APT due to the relatively low pumping rate and relative confinement above and below the permeable zone within the MCU.

Analysis of Step Drawdown Test for TW-1

As indicated in Table 2, specific capacity of TW-1 ranged from 2,143 to 7,418 gpm/ft and estimated transmissivity ranges from about 573,000 to 1,983,000 ft^2/day with an average value of 1,072,000 ft^2/day using the empirical method for estimating transmissivity. The step drawdown data was imported into the AQTESOLV® software to match the entire step drawdown test curve using the Theis method (**Figure 16**). As indicated in Table 2, there was good agreement between the solution method with transmissivity estimated to be 1,061,000 ft^2/day.

APT Analyses

As stated in the APT plan for this project, water level drawdown versus time data for the pumping well and monitor wells were to be analyzed using the Theis (1935), Cooper and Jacob (1946) and Hantush-Jacob (1956 and1960) methods. The Theis and Cooper Jacob methods are strictly used for confined aquifers with no vertical leakance and will provide an estimate of transmissivity and storativity of the pumped aquifer. The Hantush method is used for leaky semiconfined aquifers and will yield an estimate of vertical leakance in addition to transmissivity and storativity. It is anticipated that the LFA in the vicinity of the City of Ocala southern wellfield is a semiconfined leaky aquifer. However, a derivative analysis of the water level drawdown versus time data for the pumping well and two LFA monitor wells will provide some insight with respect to vertical leakage and any boundary effects that will affect the aquifer hydraulics.



Figure 12
Groundwater Head versus Time for MCU MW-1B (Pumping) and MCU MW-2B During the MCU APT, City of Ocala

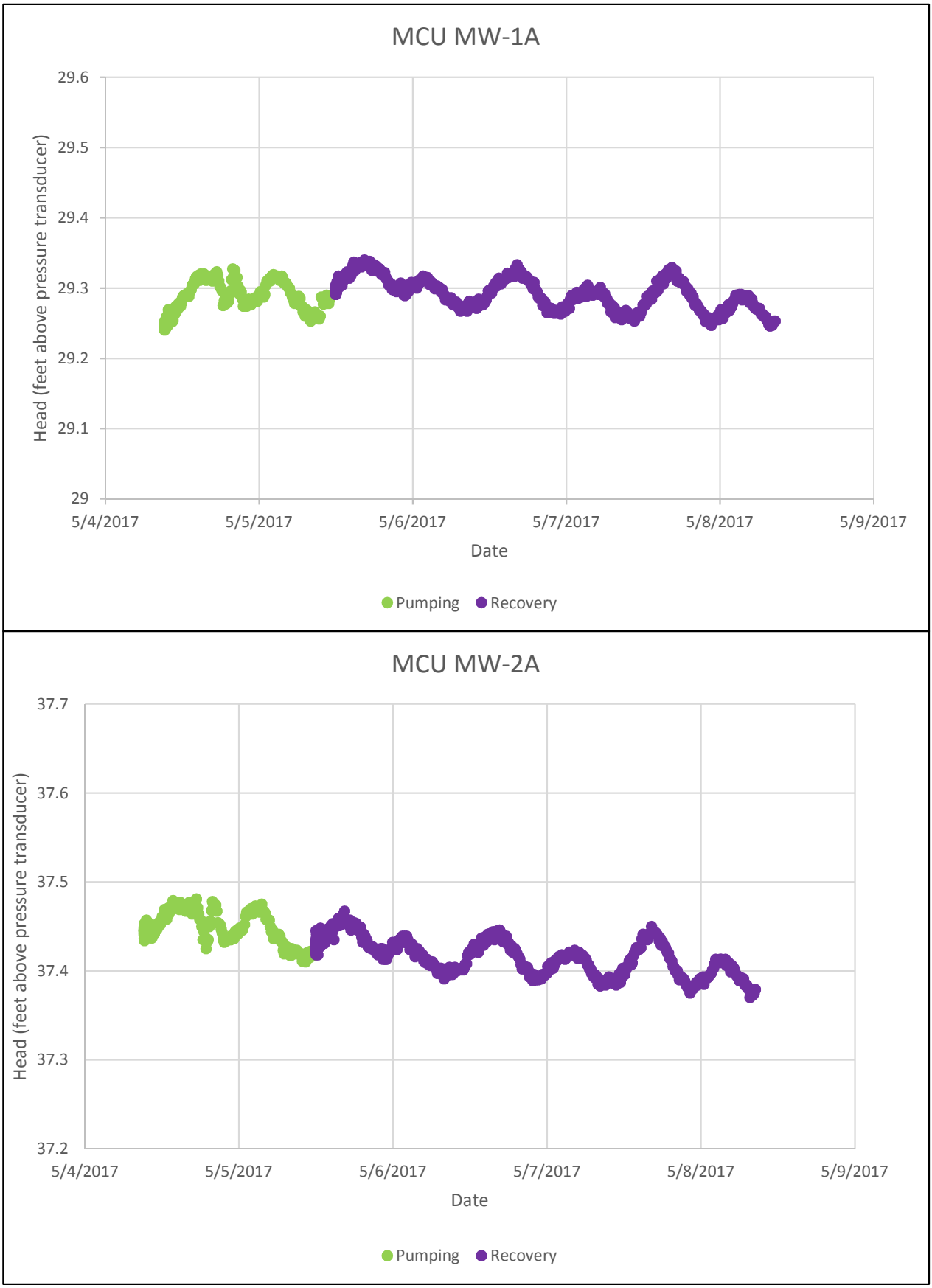
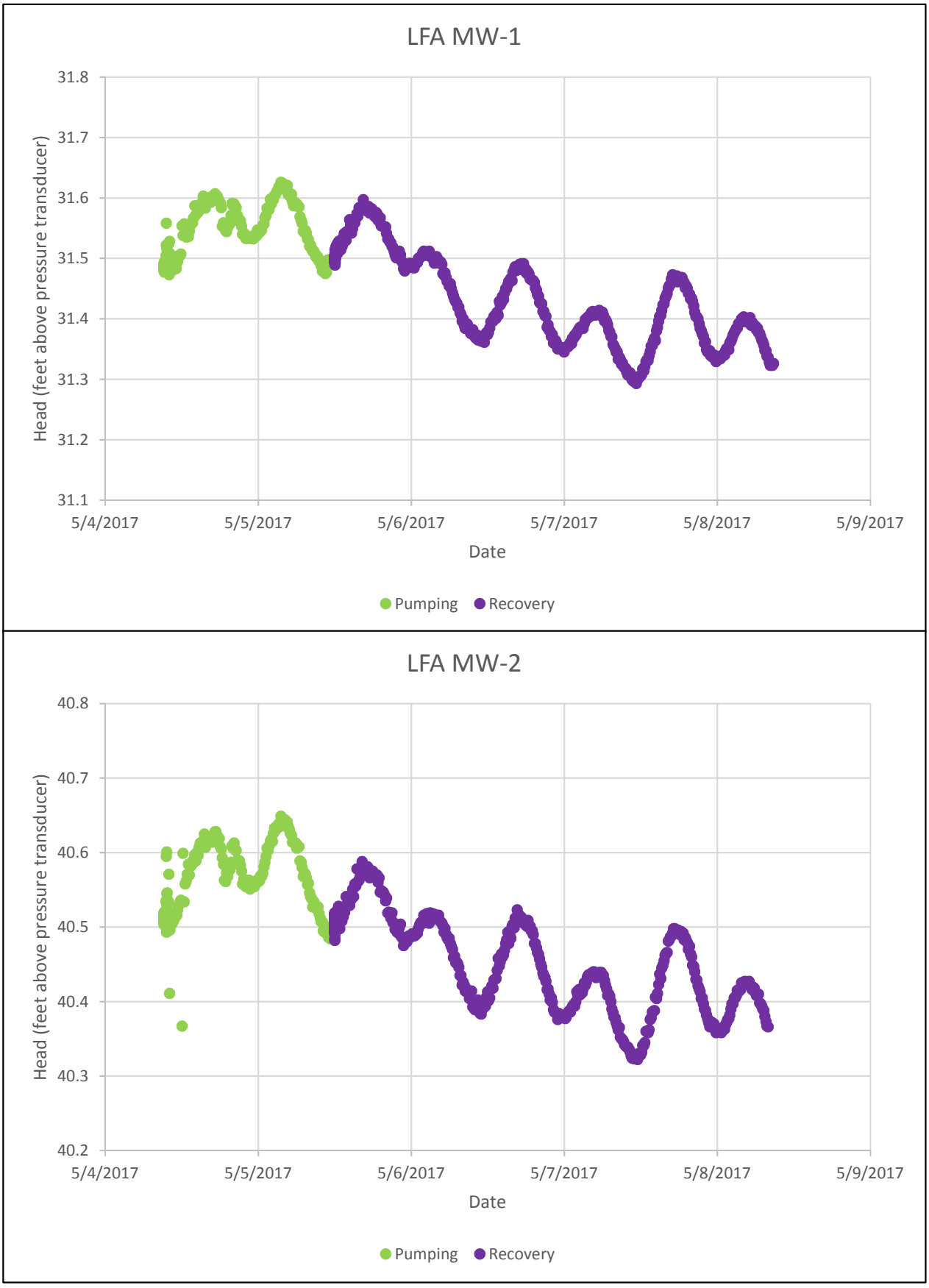
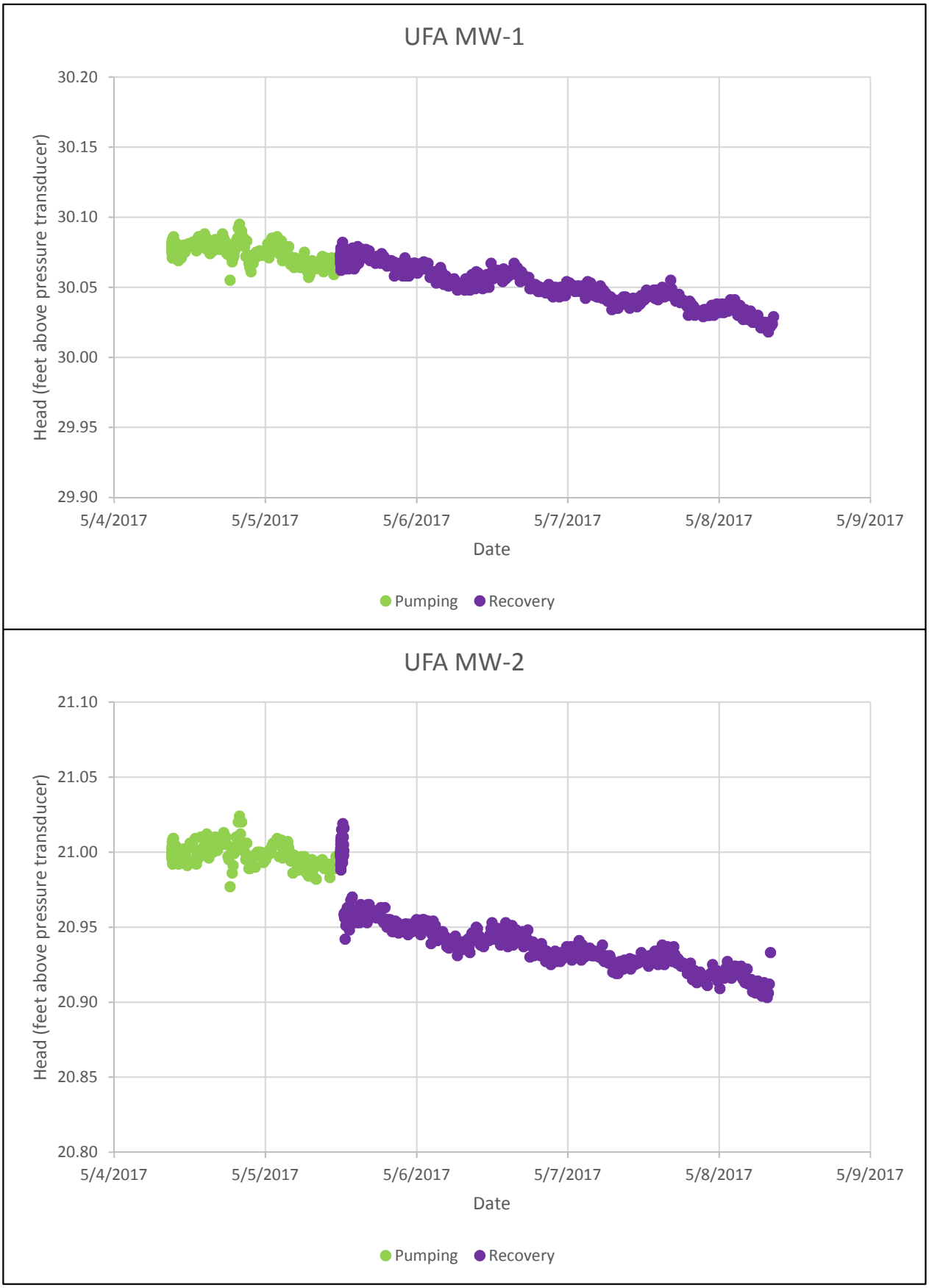


Figure 13
Groundwater Head versus Time for MCU MW-1A and MCU MW-2A During the MCU APT, City of Ocala



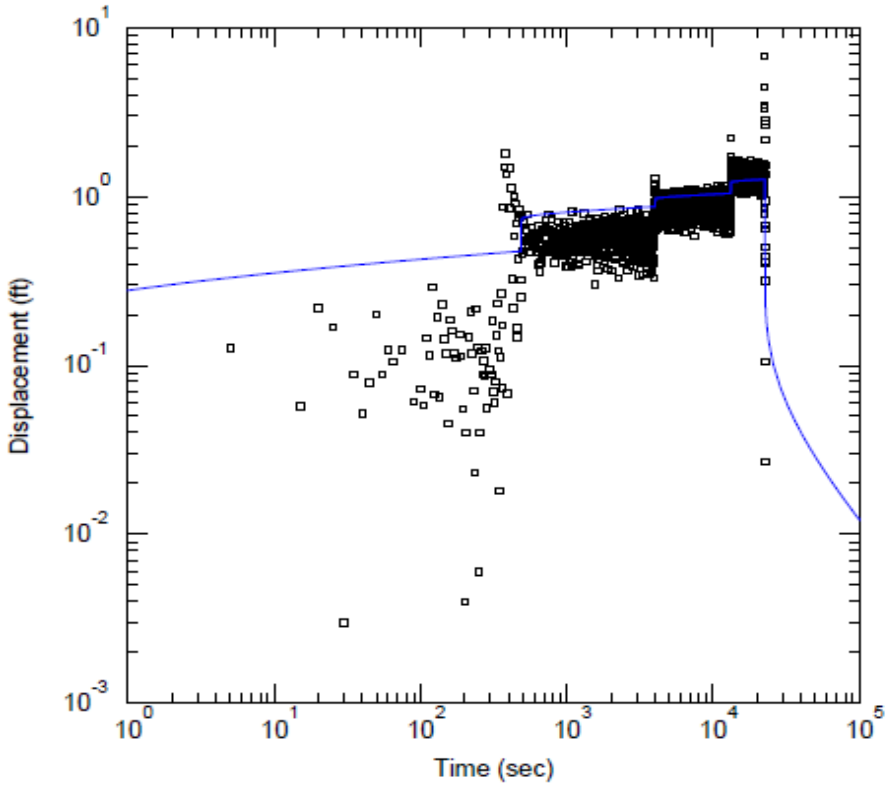
CDM Smith

Figure 14
Groundwater Head versus Time for LFA MW-1 and LFA MW-2 During the MCU APT, City of Ocala



CDM Smith

Figure 15
Groundwater Head versus Time for UFA MW-1 and UFA MW-2 During the MCU APT, City of Ocala



WELL TEST ANALYSIS

Data Set: J:\9247\218504\APT Analysis\StepTest\TW-1 Theis_Step.aqt
Date: 06/29/17 Time: 10:53:09

PROJECT INFORMATION

Company: CDM Smith
Client: SJRWMD
Location: Ocala, FL

AQUIFER DATA

Saturated Thickness: 500. ft Anisotropy Ratio (Kz/Kr): 0.1

WELL DATA

Pumping Wells

Well Name	X (ft)	Y (ft)
TW-1	0	0

Observation Wells

Well Name	X (ft)	Y (ft)
TW-1	0	0

SOLUTION

Aquifer Model: Confined
Solution Method: Theis (Step Test)

T = 1.061E+6 ft^2/day
S = 0.05277
Sw = -3.1
C = 0.012 sec^2/ft^5
P = 2.

Step Test Model: Jacob-Rorabaugh
$s(t) = -0.0002954Q + 0.012Q^{2.}$
Time (t) = 1. sec Rate (Q) in cu. ft/sec
W.E. = 42.07% (Q from last step)

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Figure 16
Theis Solution for Transmissivity and Storage Estimation for TW-1
City of Ocala Lower Floridan Aquifer Step Drawdown Test

Derivative Analysis

Derivative analysis involves plotting the observed drawdown vs. time data and computation and superimposition of the derivative of the drawdown vs. time data (*ds/dlnt*) on the same graph. The purpose is to detect deviations in the rate of displacement change. More specifically, it can be used to identify the late-time interval where the derivative becomes near constant prior to the onset of boundary effects, if they occur. This interval indicates radial flow in an infinite aquifer and corresponds to the straight-line segment matched by the Cooper-Jacob (1946) approximation on a semi-log plot. Interpretation of a derivative-time graph can also help in the identification of boundary conditions such as well-bore storage, aquifer boundaries, and leakage. The description of these analyses and plots is taken from LaRoche (2009). This analysis is completed within the AQTESOLV® software. The derivative analysis for four different applicable boundary conditions that would likely be encountered in the City of Ocala WPT 2 wellfield are shown on **Figure 17** and will be described in the following sections.

Confined Aquifer

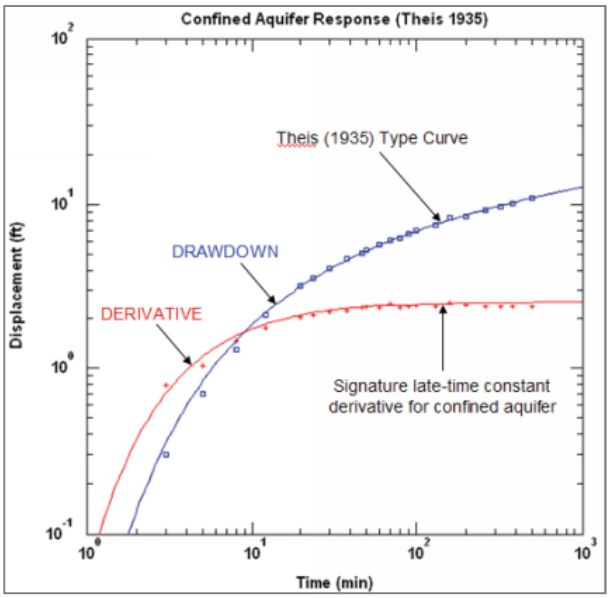
As shown on Figure 17a, the observed drawdown data (blue line) is fitted to the type curve solution of Theis (1935), which assumes a single well for the pumped well that fully penetrates the aquifer. The signature late-time interval where the derivative reaches a constant value (red line) indicates the period of radial flow in an infinite aquifer and is the optimum range of data (straight line portion) for type curve matching with the Cooper-Jacob (1946) solution on a semi-log graph.

Confined Aquifer with a Recharge Boundary

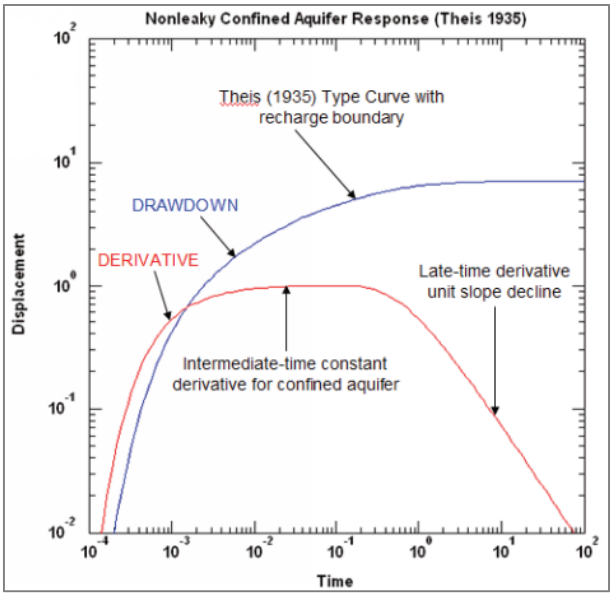
Figure 17b shows the signature simulated response for a confined aquifer in an observation well exhibiting effects of interaction with a recharge (constant-head) boundary. The derivative approaches a constant value in intermediate time indicating radial flow in an infinite-acting aquifer prior to the influence of the boundary. In late time, however, recharge causes drawdown to approach a constant value and the derivative to decrease and gradually approach zero (steady-state condition) with a characteristic unit slope decline.

Leaky Aquifer with an Incompressible Confining Unit

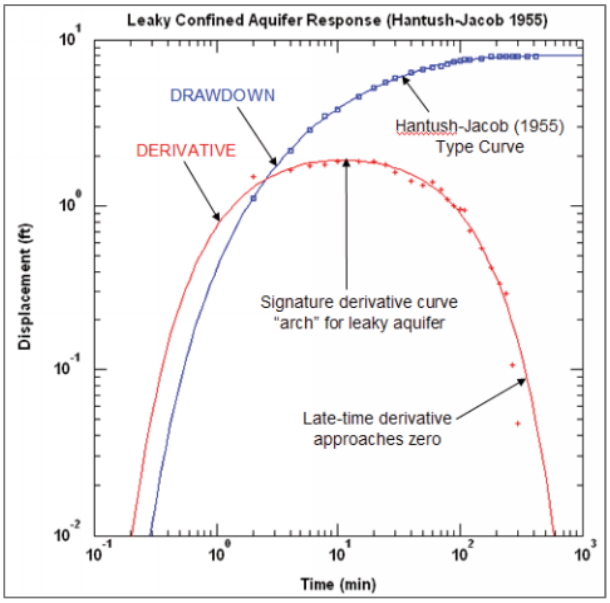
Figure 17c shows signature observed and simulated responses for a leaky aquifer in an observation well with an incompressible aquitard (S' = 0). Leakage causes drawdown to approach a constant value in late time. The resulting derivative curve exhibits a characteristic "arch" as it approaches zero in late time (approaches steady- state conditions). The observed drawdown data is fitted to the type curve solution of Hantush-Jacob (1955) and assumes leakage is supplied by a constant-head source.



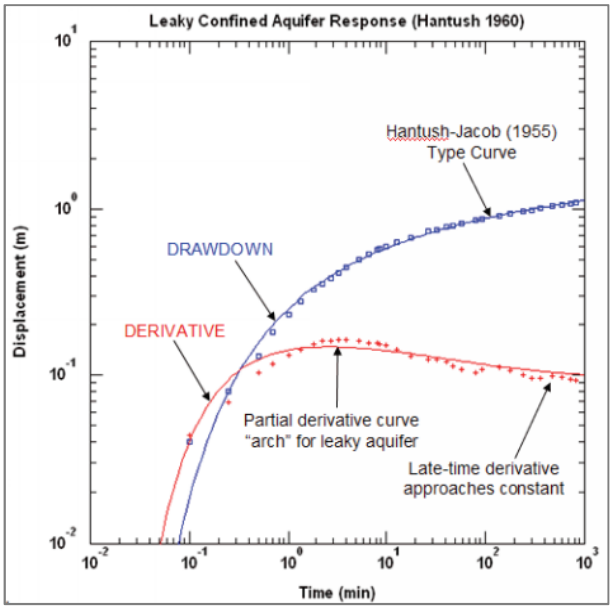
17a Confined Aquifer Response with Theis Solution



17b-Confined Aquifer with a Recharge Boundary with Theis Solution



17c Leaky Confined Aquifer with an Incompressible Confining Unit using the Hantush-Jacob Solution



17d Leaky Confined Aquifer with a Compressible Confining Unit using the Hantush-Jacob Solution

Figure 17
Confined and Leaky Confined Aquifer Responses in an Observation Well During an APT using Derivative Analyses (LaRoche, 2009)

Leaky Aquifer with a Compressible Confining Unit

Figure 17d shows signature observed and simulated responses for a leaky aquifer in an observation well with a compressible aquitard (S' ≠ 0). The resulting derivative curve resembles a partial "arch" that approaches a constant value in late time that is roughly one-half the slope observed in a confined aquifer. The observed drawdown data in this example is fitted to the type curve solution of Hantush-Jacob (1955) and assumes leakage is supplied by a constant-head source.

Lower Floridan Aquifer APT for TW-1

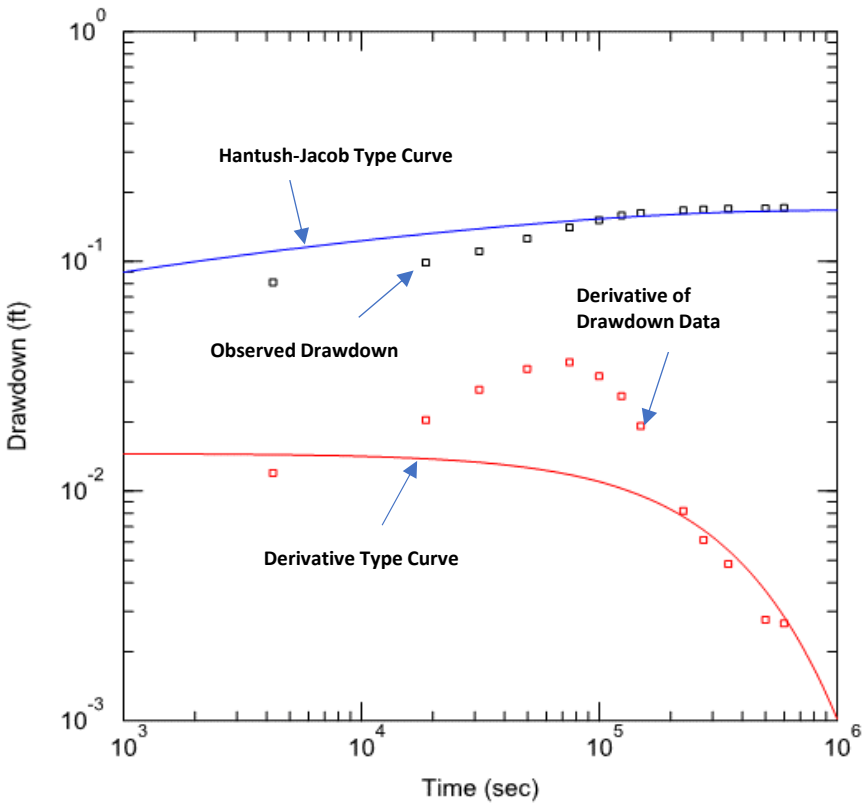
TW-1, LFA MW-1 and LFA MW-2 Derivative Analysis

The drawdown versus time data and the derivative of the drawdown versus time data (*ds/dlnt*) versus time for TW-1, LFA MW-1 and LFA MW-2 were plotted on a log-log scale for all three wells. The data for LFA MW-1 and LFA MW-2 exhibit a semiconfined aquifer with a compressible confining unit signature as presented on **Figure 18** and **Figure 19**. The analysis shows that the LFA in the vicinity of the City of Ocala southern wellfield is a leaky confined aquifer with a compressible confining unit. Therefore, the water level drawdown versus time data from the APT were analyzed using the Hantush-Jacob (1956) method to estimate transmissivity, storativity and leakance. An additional method developed by Moench (1988) was also used to estimate the transmissivity of the fractures (due to secondary porosity) and the carbonate matrix (primary porosity).

Aquifer Characteristics

To estimate LFA transmissivity, storativity and leakance across the MCU, the drawdown and recovery versus time data for LFA MW-1 and LFA MW-2 were analyzed using AQTESOLV®. **Table 3** presents the results of the APT analyses using the Hantush-Jacob method by analyzing the pumping and recovery data together. The AQTESOLV® plots for LFA-MW-1 and LFA MW-2 using the Hantush-Jacob method (1956) are presented on **Figures 20** and **Figure 21**.

As indicated in Table 3, the transmissivity of the LFA using the leaky confined aquifer solution (Hantush-Jacob, 1956) ranges from approximately 3,160,000 to 3,850,000 ft^2/day. The storativity is in the range of 8.5E-02 to 3.2E-01. The confining unit leakance ranges from 5.1E-04 and 2.1E-02, which is a typical value for the MCU. The target well depth for TW-1 was 1,300 feet. The final well depth was selected to be 1,277 feet bls due to a couple of weeks of dredging during drilling of this well indicating hard but highly fractured rock matrix between 1,240 feet bls to the terminated depth of the open hole section. Additionally, video logging of TW-1 indicated several fractures in the open hole interval of this well starting at about 1,212 feet bls. These observations when considered in combination with the results of the LFA APT suggest that the transmissivity of the LFA near the Ocala WTP2 is very high.



WELL TEST ANALYSIS

Data Set: C:\Project\ocala\LFA-MW1_DD_Derivative_HJ.aqt
Date: 07/26/17 Time: 16:48:16

PROJECT INFORMATION

Company: CDM Smith
Client: SJRWMD
Location: Ocala, FL

WELL DATA

Pumping Wells

Well Name	X (ft)	Y (ft)
TW-1	298250.54	1752202.27

Observation Wells

Well Name	X (ft)	Y (ft)
LFA-MW-1	298279.0453	1752243.216

SOLUTION

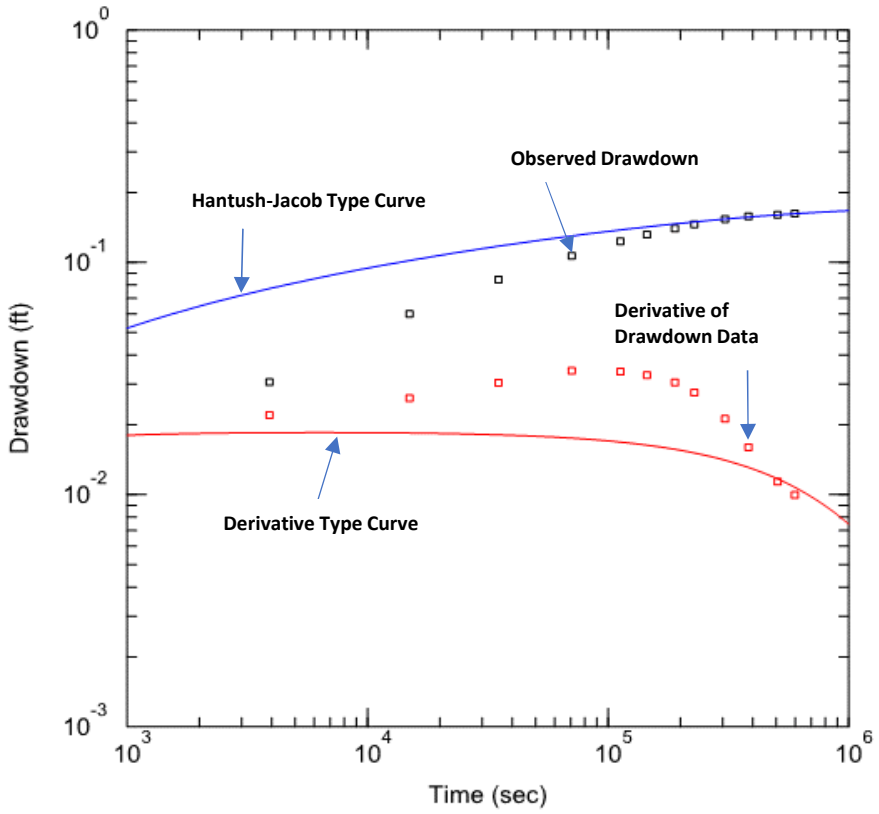
Aquifer Model: Leaky
Solution Method: Hantush-Jacob

T = 3.85E+6 ft^2/day
r/B = 0.003643
b = 500. ft

S = 0.0854
Kz/Kr = 0.1

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Figure 18
Derivative Analysis and Corresponding Hantush-Jacob Solution for LFA MW-1
City of Ocala Lower Floridan Aquifer Performance Test



WELL TEST ANALYSIS

Data Set: C:\Project\ocala\LFA-MW2b_DD_Derivative.aqt
Date: 07/26/17 Time: 16:53:44

PROJECT INFORMATION

Company: CDM Smith
Client: SJRWMD
Location: Ocala, FL

WELL DATA

Pumping Wells

Well Name	X (ft)	Y (ft)
TW-1	298250.54	1752202.27

Observation Wells

Well Name	X (ft)	Y (ft)
LFA MW-2	298150.7516	1752125.935

SOLUTION

Aquifer Model: Leaky
Solution Method: Hantush-Jacob

T = 3.0E+6 ft^2/day
r/B = 0.01148
b = 500. ft

S = 0.3163
Kz/Kr = 0.1

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Figure 19
Derivative Analysis and Corresponding Hantush-Jacob Solution for LFA MW-2
City of Ocala Lower Floridan Aquifer Performance Test

Table 3 Calculated Transmissivity, Storativity and Leakance based on Analysis of APT Drawdown/Recovery versus Time Data from Pumping of TW-1

Well ID	Well Type	Analysis Method							
		Using Pumping and Recovery Data				Using Only Pumping Data			
		Hantush-Jacob (Leaky Confined Aquifer)				Moench Method (Fracture & Matrix Flow)			
		Transmissivity		Storativity (no unit)	Leakance (day^{-1})	Transmissivity of Fractures (ft^2/day)	Specific Storage of Fractures (ft^{-1})	Transmissivity of Matrrix (ft^2/day)	Specific Storage of Matrix (ft^{-1})
		(ft^2/day)	(gpd/ft)						
LFA MW-1	Monitoring	3,850,000	28,798,000	8.54E-02	2.05E-02	3,900,000	6.34E-04	10,325	9.80E-06
LFA MW-2	Monitoring	3,159,000	23,629,320	3.16E-01	5.08E-04	3,500,000	1.97E-04	8,375	1.35E-05
Averages		**3,504,500**	**26,213,660**	**2.01E-01**	**1.05E-02**	**3,700,000**	**4.15E-04**	**9,350**	**1.16E-05**

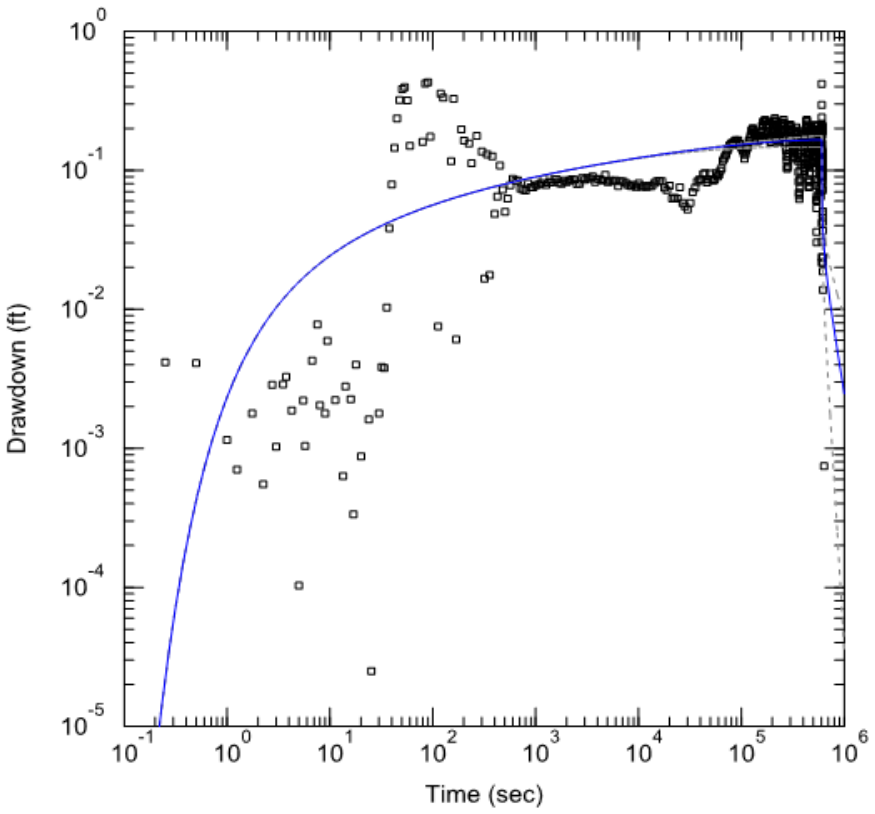
Notes:

Pumping rate is 3,667 gpm.

Pumping began on April 17, 2017 at 11:00 am and monitoring ended on April 24, 2017 at 10:21 am.

Recovery began on April 24, 2017 at 11:00 am and ended on April 25, 2017 at 6:18 pm.

Aquifer characteristics based on seven days of pumping and one days of recovery except for Moench method, which is based only on pumping data.



WELL TEST ANALYSIS

Data Set: C:\Project\ocala\LFA-MW1_DD&Recovery_HJ.aqt
Date: 07/26/17 Time: 16:52:04

PROJECT INFORMATION

Company: CDM Smith
Client: SJRWMD
Location: Ocala, FL

WELL DATA

Pumping Wells

Well Name	X (ft)	Y (ft)
TW-1	298250.54	1752202.27

Observation Wells

Well Name	X (ft)	Y (ft)
LFA MW-1	298279.0453	1752243.216

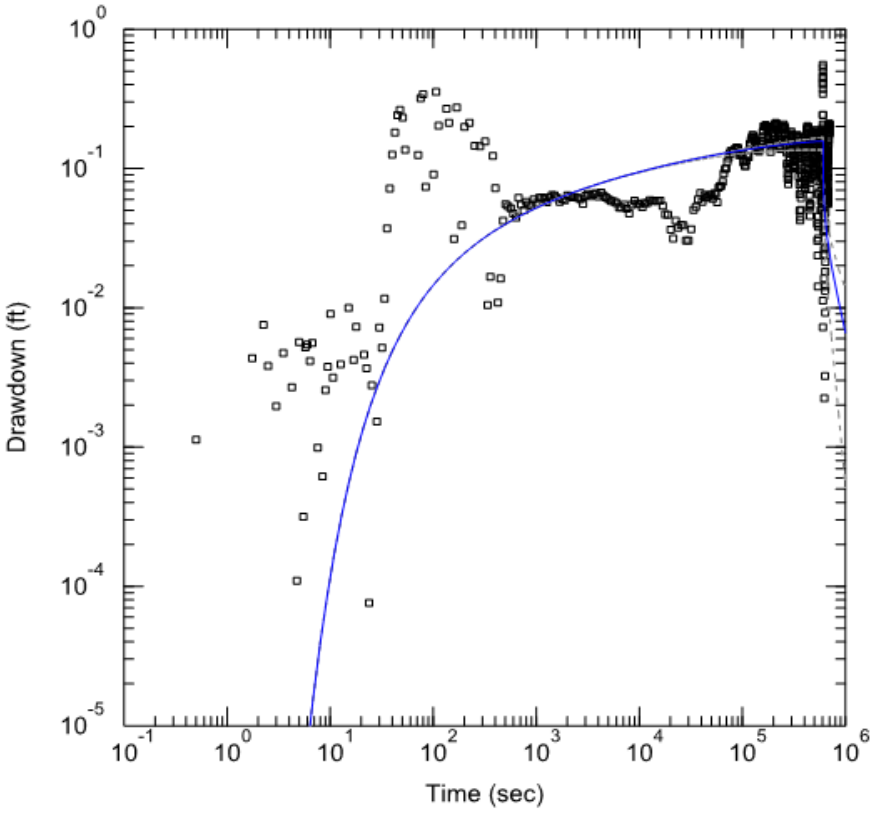
SOLUTION

Aquifer Model: Leaky
Solution Method: Hantush-Jacob

T = 3.85E+6 ft²/day
S = 0.08542
r/B = 0.003643
Kz/Kr = 0.1
b = 500. ft

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Figure 20
Hantush-Jacob Solution for Transmissivity, Storativity, and Leakance Estimation for LFA MW-1 Using Drawdown and Recovery Data
City of Ocala Lower Floridan Aquifer Performance Test



WELL TEST ANALYSIS

Data Set: C:\Project\ocala\LFA-MW2b_DD&Recovery_HJ.aqt
Date: 07/26/17 Time: 17:00:35

PROJECT INFORMATION

Company: CDM Smith
Client: SJRWMD
Location: Ocala, FL

WELL DATA

Pumping Wells

Well Name	X (ft)	Y (ft)
TW-1	298250.54	1752202.27

Observation Wells

Well Name	X (ft)	Y (ft)
LFA MW-2	298150.7516	1752125.935

SOLUTION

Aquifer Model: Leaky
Solution Method: Hantush-Jacob

T = 3.0E+6 ft^2/day
r/B = 0.01484
b = 500. ft

S = 0.316
Kz/Kr = 0.1

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Figure 21
Hantush Jacob Solution for Transmissivity, Storativity, and Leakance Estimation for LFA MW-2 Using Drawdown and Recovery Data
City of Ocala Lower Floridan Aquifer Performance Test

Transmissivity estimates using drawdown data from the pumping well typically produce lower values than the observation well data. Data from the observation wells are more representative of the LFA for the wellfield, whereas the data from the pumping well is influenced by a very small portion of the aquifer just around the well.

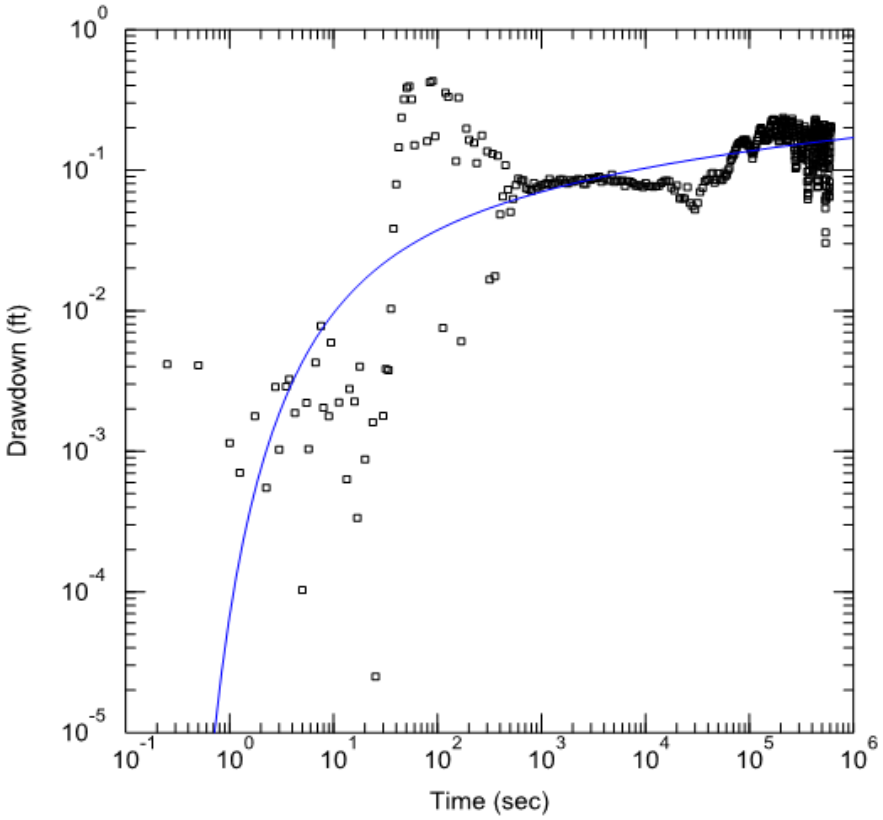
The water level drawdown versus time data for LFA MW-1 and LFA MW-2 were also analyzed using the Moench Method (1988) and the results are presented in Table 3. The AQTESOLV® plots for LFA-MW-1 and LFA MW-2 using the Moench method (1988) are presented on **Figures 22** and **Figure 23**. Using this method, the transmissivity of the fractures ranged from 3,500,000 to 3,900,000 ft2/day. The average specific storage of the fractures was 4.2E-04 ft^{-1}. Transmissivity of the matrix is estimated range from 8,375 to 10,325 ft2/day, approximately two orders of magnitude lower than the fracture transmissivity. The average specific storage of the matrix is 1.2E-05 ft^{-1}. This analysis shows that the majority of the transmissivity calculated with the Hantush-Jacob method is attributed to the fractures in the LFA.

Comparison of LFA Characteristics to Other FA Wellfields

The LFA transmissivity value from the TW-1 APT (3,540,000 to 3,680,000 ft^2/day) is higher than any other reported values compared to other FAS wellfields in central and northeast Florida as shown in **Table 4**. However, the transmissivity of the UFA at the Ocala Northern wellfield (1,147,000 ft^2/day) is also higher than the transmissivity of the UFA or LFA for all the other sites in Table 4. According to USGS Water-Resources Investigations Report 02–4193 titled Hydrogeology and Water-Quality Characteristics of the LFA in East-Central Florida (Spechler et al., 2001), transmissivity of the LFA from aquifer performance testing in east-central Florida ranges from 71,000 to 936,000 ft^2/day. According to USGS Water-Resources Investigations Report 96-4242 titled The Relation Between Hydrogeology and Water Quality of the LFA in Duval County, Florida, and Implications for Monitoring Movement of Saline Water (Phelps and Spechler, 1996), transmissivity of the upper zone of the LFA from specific capacity testing in northeast Florida ranges from 2,100 ft^2/day to 194,000 ft^2/day.

There are two LFA irrigation wells located in the Villages development in Sumter County that have aquifer characteristics similar to those observed at the Ocala WTP2 site (Andreyev Engineering, 2004a and 2004b). The Villages IR-3 well has a transmissivity of 1,733,783 ft^2/day, storativity of 0.029 and a leakance of 2.5E-04 day^{-1}. The Villages IR-4 well has a transmissivity of 4,515,374 and did not report values for storativity and leakance.

While the Ocala LFAPT indicates extremely high transmissivities even higher values occur the within the same formation (Oldsmar) in South Florida (Oldsmar – Boulder Zone). As indicated in Table 4, a transmissivity of 25,595,000 ft2/day was observed in the Boulder Zone at the Miami Dade Water and Sewer Department South District WWTP. The caliper, flow and video logs for the Ocala TW-1 are similar to those for the Boulder Zone in South Florida where highly fractured dolostones occur. Although the Boulder Zone in South Florida is deeper and contains saline water the Oldsmar Formation at Ocala is chronostratigraphically equivalent with the Boulder Zone in South Florida and exhibits a similar high permeability due to secondary porosity of the highly fractured dolostones.



WELL TEST ANALYSIS

Data Set: J:\9247\218504\Report\Comments\AQT Files\LFA-MW1_DD_Moench.aqt
Date: 08/28/17 Time: 15:06:34

PROJECT INFORMATION

Company: CDM Smith
Client: SJRWMD
Location: Ocala, FL

AQUIFER DATA

Saturated Thickness: 500. ft Spherical Block Diameter: 5. ft

WELL DATA

Pumping Wells

Well Name	X (ft)	Y (ft)
TW-1	298250.54	1752202.27

Observation Wells

Well Name	X (ft)	Y (ft)
LFA MW-1	298279.0453	1752243.216

SOLUTION

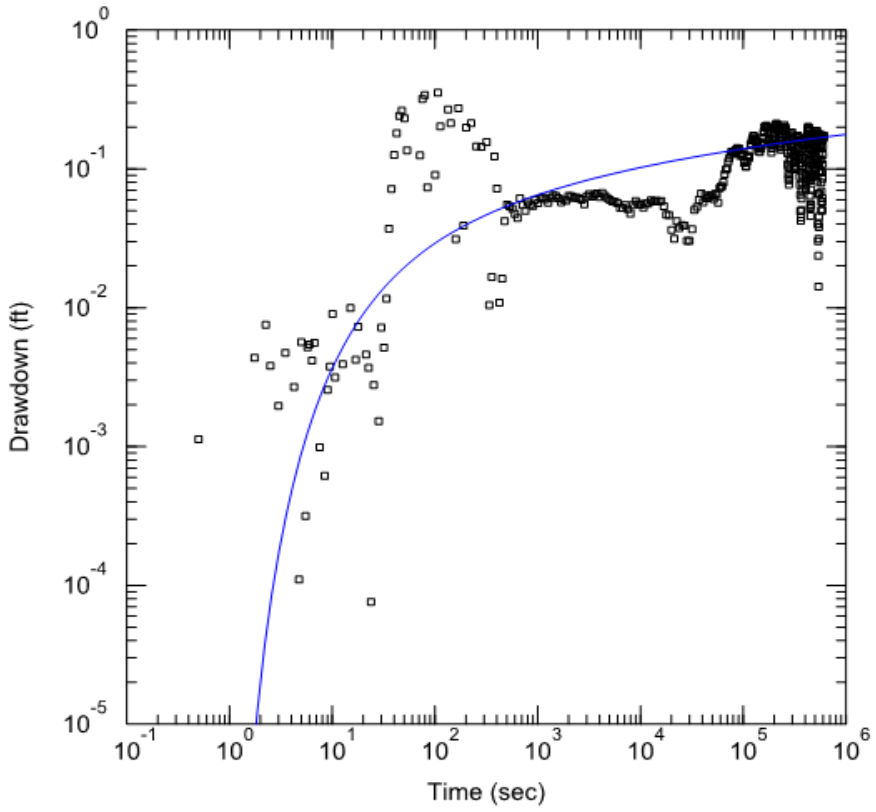
Aquifer Model: Fractured
Solution Method: Moench w/spherical blocks

K = 7765.3 ft/day
K' = 20.65 ft/day
Sw = -2.025
r(w) = 1. ft

Ss = 0.0006336 ft^{-1}
Ss' = 9.797E-6 ft^{-1}
Sf = 0.
r(c) = 1. ft

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Figure 22
Moench Solution for Transmissivity and Specific Storage Estimation for LFA MW-1 Using Drawdown and Recovery Data
City of Ocala Lower Floridan Aquifer Performance Test



WELL TEST ANALYSIS

Data Set: J:\9247\218504\Report\Comments\AQT Files\LFA-MW2b_DD_Moench.aqt
Date: 08/28/17 Time: 15:06:55

PROJECT INFORMATION

Company: CDM Smith
Client: SJRWMD
Location: Ocala, FL

AQUIFER DATA

Saturated Thickness: 500. ft Spherical Block Diameter: 5. ft

WELL DATA

Pumping Wells

Well Name	X (ft)	Y (ft)
TW-1	298250.54	1752202.27

Observation Wells

Well Name	X (ft)	Y (ft)
LFA MW-2	298150.7516	1752125.935

SOLUTION

Aquifer Model: Fractured
Solution Method: Moench w/spherical blocks

K = 6911.6 ft/day
K' = 16.75 ft/day
Sw = -2.025
r(w) = 1. ft

Ss = 0.0001972 ft^{-1}
Ss' = 1.335E-5 ft^{-1}
Sf = 0.6623
r(c) = 1. ft

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Figure 23
Moench Solution for Transmissivity and Specific Storage Estimation for LFA MW-2 Using Drawdown and Recovery Data
City of Ocala Lower Floridan Aquifer Performance Test

Table 4 Comparison of Ocala WTP2 LFA Characteristics to other Relevant Floridan Aquifer Characteristic Values

Location	Source	Aquifer Tested	Open Hole Interval (feet)	Transmissivity (ft^2/day)	Leakance (day^{-1})	Storativity
City of Winter Garden LFA 5	Colinas Group, 2001	Lower Floridan Aquifer	900 -1,300	147,000	NP	NP
City of Winter Garden LFA 6	CDM Smith, 2015	Lower Floridan Aquifer	898-1,493	191,300	NP	4.7E-03
Keystone Heights/ CCUA Well 4	Connect Consulting, 2009	Lower Floridan Aquifer	680-950	60,000	1.3E-03	1.8E-04
City of Orlando Supplemental Well No. 2, Lake Nona WTP	BFA, 2000	Lower Floridan Aquifer	1,045 - 1,441	26,200 to 107,000	NP	NP
Adena Springs Ranch	Intera, 2014	Upper Floridan Aquifer	102-340	82,500 to 103,000	4.3E-04 to 6.3E-04 [1]	2.3E-03 to 1.5E-02
City of Ocala Northern Wellfield	Fischl, P., 1994	Upper Floridan Aquifer	100-240	1,147,000	1.7E-01[1]	NP
JEA Well 14	CDM Smith, 2016b	Upper/Lower Floridan Aquifers	525-1,300	526,200	NP	NP
JEA Well 6A	CDM Smith, 2016c	Upper/Lower Floridan Aquifers	514-1,300	29,500	NP	NP
Ross Pond ROMP 119.5 Site, Marion County	LaRoche, 2012	Upper Floridan Aquifer	55-601	76,000	0.005[1]	3E-03
Orange County, FL Eastern Regional Wellfield	Jammal & Associates, 1990	Upper Floridan Aquifer	220-550	223,200 to 303,400	1.8E-01 to 8E-01 [2]	2E-04 to 8E-03
Villages VWCA IR-3, Sumter County	Andreyev Engineering, 2004a	Lower Floridan Aquifer	595-890	1,733,783	2.5E-04	0.029
Villages VWCA IR-4, Sumter County	Andreyev Engineering, 2004b	Lower Floridan Aquifer	595-756	4,515,374	NP	NP
Miami Dade Water & Sewer Dept. South District WWTP	Singh et al., 1983	Lower Floridan Aquifer (Boulder Zone)	2,746-3,193	24,595,000	NP	7.7E-04
City of Ocala WTP2, TW-1	This report	Lower Floridan Aquifer	810-1,277	3,700,000	5.1E-04 to 2.1E-02	8.5E-02-to 3.2E-01

Notes:
NP means not provided
[1] Leakance across Intermediate Confining Unit (ICU)
[2] Leakance across both ICU and MCU

MCU APT MCU MW-1b

MCU MW-2b Derivative Analysis

The drawdown versus time data and of the derivative of the drawdown versus time data (*ds/dlnt*) versus. time for MCU MW-2b was plotted on a log-log scale. The data for MCU MW-2b exhibits a semiconfined aquifer with a compressible confining unit signature as presented on **Figure 24**. The analysis shows that the permeable zone with the lower portion of the MCU in the vicinity of the City of Ocala southern wellfield is a leaky confined aquifer with a compressible confining unit.

Aquifer Characteristics

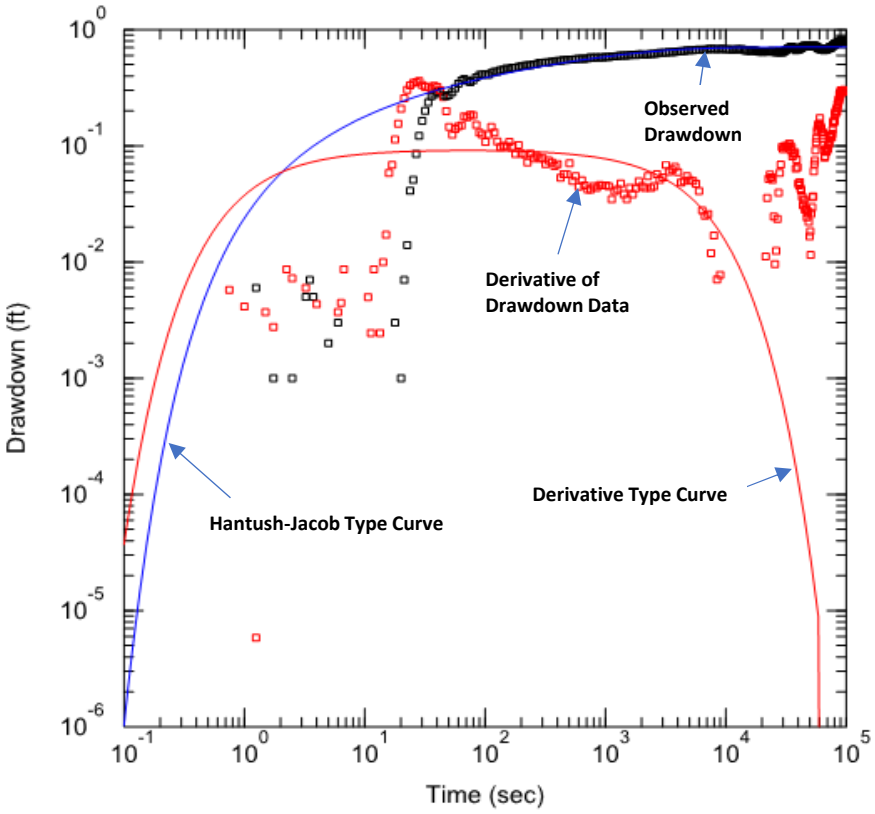
To estimate transmissivity, storativity of the permeable zone within the MCU and leakance from confinement above and below this permeable zone in the MCU, the drawdown versus time data for MCU MW-2b were analyzed using AQTESOLV® The data were analyzed in two ways using the Theis, Cooper-Jacob and Hantush-Jacob methods. The first method involved analyzing the pumping and recovery data together in AQTESOLV® The second method involved analyzing the pumping data and recovery data separately. Typically, the pumping and recovery data are analyzed separately but the software allows for the pumping and recovery data to be analyzed together. **Table 5** presents the results of the APT analysis using the Hantush-Jacob method by analyzing the pumping and recovery data together. The AQTESOLV® plots are presented on **Figure 25**.

Table 5 Calculated Transmissivity and Storativity based on Analysis of APT Drawdown/Recovery versus Time Data from Pumping of MCU-MW-1b

Well ID	Well Type	Analysis Method			
		Using Pumping and Recovery Data			
		Hantush-Jacob (Leaky Confined Aquifer)			
		Transmissivity		Storativity (no unit)	Leakance (day^{-1})
		(ft^2/day)	(gpd/ft)		
MCU-MW-2b	Monitoring	12,430	92,976	2.51E-05	4.06E-04

Notes:
Pumping rate is 76 gpm.
Pumping began on May 4, 2017 at 9:15 am and monitoring ended on May 5, 2017 at 11:33 am.
Recovery began on May 5, 2017 at 12:00 pm and ended on May 8, 2017 at 8:18 am.
Aquifer characteristics based on one day of pumping and three days of recovery.

As indicated in Table 5, the transmissivity of the permeable zone within the MCU using the leaky confined aquifer solution (Hantush-Jacob, 1956) for MCU- MW-2b is approximately 12,400 ft^2/day. The storativity for MCU MW-2b using the semiconfined leaky method (Hantush-Jacob) is 2.51E-05 and the confining unit leakance is approximately 4.06E-04, which is a moderate value.



WELL TEST ANALYSIS

Data Set: C:\Project\ocala\MCU_MW2B_DD_Derivative_HJ.aqt
Date: 07/26/17 Time: 17:02:32

PROJECT INFORMATION

Company: CDM Smith
Client: SJRWMD
Location: Ocala, FL

WELL DATA

Pumping Wells

Well Name	X (ft)	Y (ft)
MCU-MW-1b	298313.2266	1752210.159

Observation Wells

Well Name	X (ft)	Y (ft)
MCU-MW-2b	298195.2776	1752126.419

SOLUTION

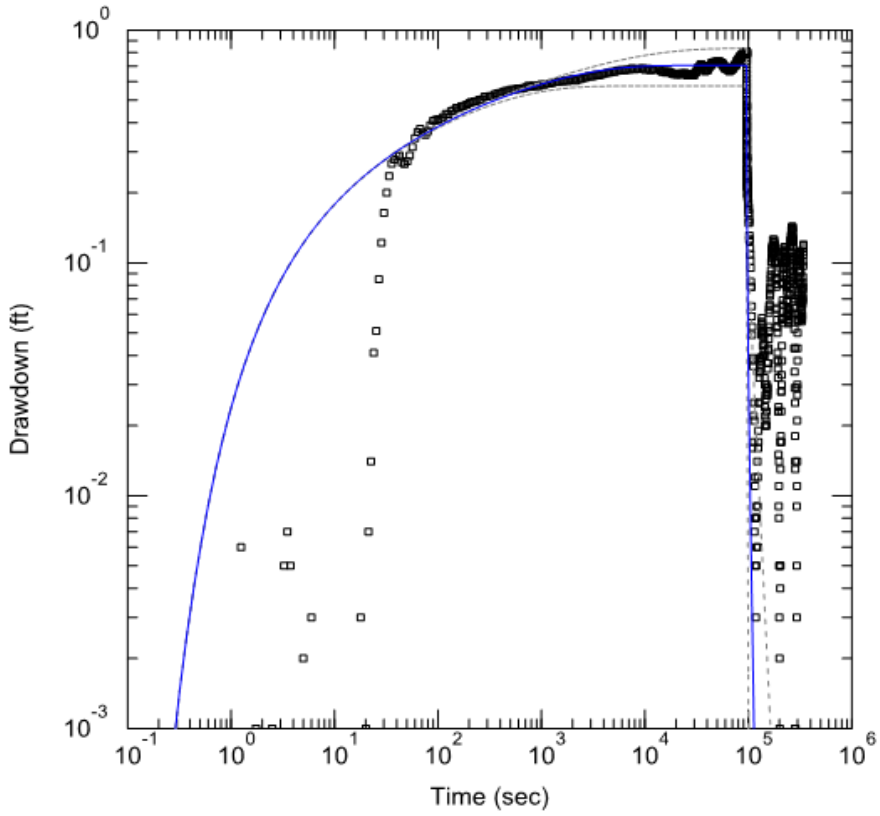
Aquifer Model: Leaky
Solution Method: Hantush-Jacob

T = 1.243E+4 ft^2/day
r/B = 0.02613
b = 500. ft

S = 2.508E-5
Kz/Kr = 0.1

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Figure 24
Derivative Analysis and Corresponding Hantush-Jacob Solution for MCU MW-2b
City of Ocala Middle Confining Unit Aquifer Performance Test



WELL TEST ANALYSIS

Data Set: C:\Project\ocala\MCU_MW2B_DD&Reovery_HJ.aqt
Date: 07/26/17 Time: 17:03:42

PROJECT INFORMATION

Company: CDM Smith
Client: SJRWMD
Location: Ocala, FL

WELL DATA

Pumping Wells

Well Name	X (ft)	Y (ft)
MCU MW-1b	298313.2266	1752210.159

Observation Wells

Well Name	X (ft)	Y (ft)
MCU MW-2b	298195.2776	1752126.419

SOLUTION

Aquifer Model: Leaky
Solution Method: Hantush-Jacob

T = 1.243E+4 ft^2/day
S = 2.508E-5
r/B = 0.02613
Kz/Kr = 0.1
b = 440. ft

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Figure 25
Hantush Jacob Solution for Transmissivity, Storativity, and Leakance Estimation for MCU MW-2b Using Drawdown and Recovery Data
City of Ocala Middle Confining Unit Aquifer Performance Test

Transmissivity estimates using drawdown data from the pumping well typically produce lower values than the observation well data. Data from the observation wells are more representative of the permeable zone of the MCU for the wellfield, whereas the data from the pumping well is influenced by a very small portion of the aquifer just around the well.

LFA APT Groundwater Quality Analysis

In accordance with the approved APT plan, groundwater samples were collected by CDM Smith at the beginning of the LFA APT and approximately every 24 hours for the duration of the test. These samples were analyzed by Advanced Environmental Laboratories, Inc. (AEL) for chloride, total dissolved solids (TDS), sulfate, hydrogen sulfide, total sulfide, ammonia, pH and specific conductance. In addition, pH, turbidity, temperature, specific conductance, oxidation reduction potential (ORP), and dissolved oxygen were measured in the field every 24 hours. The field water quality data are presented in **Table 6**. The laboratory water quality data are presented in **Table 7**. Groundwater quality samples were not collected during either the step drawdown test of the MCU APT. Laboratory water quality data reports are presented in **Attachment D**.

The specific conductance and TDS in the field were relatively constant throughout the APT. Specific conductance ranged from 921 to 944 µS/cm with no apparent trend with respect to time and pumping. TDS concentrations ranged from 604 to 622 mg/L with no apparent trend with respect to time and pumping.

The concentrations of chloride, TDS, hydrogen sulfide, total sulfide and other major cations and anions measured by AEL for samples collected during the pumping phase of the APT are presented in Table 6. As indicated in the table, TDS concentrations are nearly constant ranging between 650 and 680 mg/L. Chloride concentrations are also nearly constant ranging from 17 mg/L to 20 mg/L and significantly below the secondary drinking water standard of 250 mg/L. The TDS concentration is likely elevated due to increased concentrations of sulfate that range from 270 mg/L to 290 mg/L. The secondary drinking water standard for sulfate is 250 mg/L. Sodium concentrations are low and remained constant throughout the pumping phase of the APT at 15 mg/L. The primary drinking water standard for sodium is 160 mg/L. Iron concentrations were below the detection limit in all the samples except for LFA TPW1 APT-5 collected on April 21st that had 0.66 mg/L. The secondary drinking water standard for iron is 0.3 mg/L.

Both total sulfide and hydrogen sulfide concentrations are quite high. Hydrogen sulfide concentrations range from 5.4 to 6.4 mg/L and concentrations generally increased with time and pumping. Total sulfide concentrations ranged from 5.1 to 6.1 mg/L and showed a slight increasing trend with time and pumping.

The laboratory performed a cation-ion balance for all eight laboratory samples. All the samples except for one had a percent difference or error less than 5 percent, except for LFA TPW1 APT-4 (collected on April 20th), which had an error of 5.4 %.

Table 6 Results of Field Water Quality Analysis of Groundwater Samples Collected from LFA Well TW-1 During the Pumping Phase of the APT

Sample Info			Water Quality Parameter							
Sample ID	Date Collected	Time Collected	Temperature (°C)	Specific Conductance (µS/cm)	Conductivity (µS/cm)	pH	TDS (mg/L)	Turbidity (NTUs)	ORP (mV)	DO (mg/L)
LFA TPW1 APT-1	4/17/17	12:10	28.6	933	NS	7.8	604	1.58	NS	NS
	4/17/17	15:02	29.0	943	1,015	7.4	611	NS	-285	0.64
LFA TPW1 APT-2	4/18/17	11:20	29.1	941	1,015	7.5	611	0.82	-274	0.87
LFA TPW1 APT-3	4/19/17	12:45	28.3	921	962	7.8	608	4.03	NS	NS
LFA TPW1 APT-4	4/20/17	8:50	27.3	921	1,000	7.4	618	NS	NS	NS
LFA TPW1 APT-5	4/21/17	9:10	27.5	938	998	7.4	622	NS	NS	NS
LFA TPW1 APT-6	4/22/17	11:15	27.8	923	996	7.4	612	NS	NS	NS
LFA TPW1 APT-7	4/23/17	18:52	29.0	943	1,015	7.4	611	0.8	-300	0.63
LFA TPW1 APT-8	4/24/17	10:10	27.8	944	1,017	7.4	611	0.92	-317	0.62

Notes:

NS = Parameter Not Sampled

U = Undetected

I = The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

Table 7 Results of Laboratory Water Quality Analysis of Groundwater Samples Collected from LFA Well TW-1 During the Pumping Phase of the APT

Sample Info			Concentration (mg/L)													
Sample ID	Date Collected	Time Collected	Chloride (mg/L)	TDS (mg/L)	Sulfate (mg/L)	Dissolved H_2S [1] (mg/L)	Total Sulfide (mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Total Hardness (mg/L as $CaCO_3$)	Iron (mg/L)	Potassium (mg/L)	Sodium (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	Total Alkalinity (mg/L as $CaCO_3$)
LFA TPW1 APT 1	4/17/17	12:10	19	660	270	5.4	5.1	140	25	460	0.091 **I**	2	15	210	5.0 **U**	210
LFA TPW1 APT-2	4/18/17	11:30	20	670	280	5.8	5.5	150	25	470	0.030 **U**	2	15	210	5.0 **U**	210
LFA TPW1 APT-3	4/19/17	12:45	20	670	280	5.5	5.2	150	25	470	0.048 **I**	1.9	15	210	5.0 **U**	210
LFA TPW1 APT-4	4/20/17	11:40	19	680	290	5.8	5.5	140	25	460	0.050 **I**	1.9	15	210	5.0 **U**	210
LFA TPW1 APT-5	4/21/17	9:10	19	670	280	6.4	6.1	150	25	470	0.66	2	15	210	5.0 **U**	210
LFA TPW1 APT-6	4/22/17	12:10	19	650	290	6.0	5.7	150	24	470	0.075 **I**	1.9	15	210	5.0 **U**	210
LFA TPW1 APT-7	4/23/17	11:58	19	650	290	6.4	6.0	150	25	470	0.074 **I**	1.9	15	210	5.0 U	210
LFA TPW1 APT-8	4/24/17	10:10	17	670	280	6.4	6.0	140	24	460	0.088 **I**	1.9	15	210	5.0 **U**	210

Notes:

U = Undetected

I = The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

[1] Hydrogen Sulfide concentrations can be higher than Total Sulfide concentrations, which are the sum of dissolved H_2S, HS- and acid-volatile metallic sulfides present in particulate matter (expressed as S).

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Attachments

Attachment A

FGS Lithologic Data Report

M-0796_LithoReport (00000003)
Station Id: 455437 Report

Well Number :null | Station Name:M-0796

County Name :Marion | Location: T.15S R.22E S.32

Latitude :29D 08M 56S | Longitude: 82D 07M 17S

UTM (x,y): 390930.001,3225001.343 | Elevation (DEM): 116.445

Owner/Driller: City of Ocala APT off of South Pine Ave Corehole Plugged Back to UFA (MW-2b) Originator Elevation:null

Owner: SJRWMD

Driller: SJRWMD

Total Depth: 1250 | Originator Elevation:null

Total Depth: 1250 | Originator Elevation:

Sample Interval From: 4 | Sample Interval To:1250

No. of Samples:0 | Worked By: null

Litho Strata Details :

Depth	Strata Code	Strata Details
5	122HTRN	Hawthorn Gp. (Group) -->Oligocene-Miocene (Series) -->Tertiary (System) -->Cenozoic (Erathem)
10	124OCAL	Ocala Ls. (Group) -->Eocene (Series) -->Tertiary (System) -->Cenozoic (Erathem)
137	124AVPK	Avon Park Fm. (Formation/Unit) -->Eocene (Series) -->Tertiary (System) -->Cenozoic (Erathem)
1027	124OLDM	Oldsmar Fm. (Formation/Unit) -->Eocene (Series) -->Tertiary (System) -->Cenozoic (Erathem)

Litho Data Details :

Top Interval	Bottom Interval	Litho Data Description
5	7	Rock Type :Sand;yellowish gray_5Y 7/2_37 To light brown_5YR 5/6_28 Porosity :Low Permeability Sand Properties:GRAIN SIZE: Fine RANGE:Fine To Medium ROUNDNESS :Sub-Angular To Sub-Rounded; Medium SPHERICITY Induration:Moderate Cement:Clay Matrix Accessory Minerals :Clay-20%, Phosphatic Sand-2%, Organics-<1%, Iron Stain

Sediment Structures:
Other Features :
Sample Type :Split Spoon

7 10 Rock Type :No Sample;
Porosity :
Cement:
Accessory Minerals :
Sediment Structures:
Other Features :
Sample Type :Split Spoon

10 12 Rock Type :Grainstone;white_N9_76 To yellowish gray_5Y 8/1_86
Porosity :Intergranular,Intragranular
LimeStone Properties:GRAIN TYPE : Skeletal,Calcilutite , Biogenic GRAIN SIZE :Gravel
Induration:Poor
Cement:Calcilutite Matrix
Accessory Minerals :
Fossils:Fossil Fragments, Benthic Foraminifera, Echinoid
General Fossils :Fossil Fragments, Benthic Foraminifera, Echinoid
Sediment Structures:
Other Features :
Sample Type :Split Spoon

12 15 Rock Type :No Sample;
Porosity :
Cement:
Accessory Minerals :
Sediment Structures:
Other Features :
Sample Type :Split Spoon

15 17 Rock Type :Grainstone;white_N9_76 To yellowish gray_5Y 8/1_86
Porosity :Intergranular,Intragranular
LimeStone Properties:GRAIN TYPE : Skeletal,Calcilutite , Biogenic GRAIN SIZE :Gravel
Induration:Poor
Cement:Calcilutite Matrix
Accessory Minerals :
Fossils:Fossil Fragments, Benthic Foraminifera, Echinoid
General Fossils :Fossil Fragments, Benthic Foraminifera, Echinoid
Sediment Structures:
Index Fossils :Lepidocyclina ocalana (Ocala Ls.)

Other Features :
Sample Type :Split Spoon

17 20 Rock Type :No Sample;
Porosity :
Cement:
Accessory Minerals :
Sediment Structures:
Other Features :
Sample Type :Split Spoon

20 22 Rock Type :Packstone;white_N9_76 To yellowish

gray_5Y 8/1_86
Porosity :Intergranular,Intragranular
LimeStone Properties:GRAIN TYPE :
Skeletal,Calcilutite , Biogenic GRAIN SIZE :Gravel
Induration:Moderate
Cement:Calcilutite Matrix
Accessory Minerals :
Fossils:Fossil Fragments, Fossil Molds, Benthic
Foraminifera, Gastropods, Miliolids
General Fossils :Fossil Fragments, Fossil Molds,
Benthic Foraminifera, Gastropods, Miliolids
Sediment Structures:
Index Fossils :Lepidocyclina ocalana (Ocala Ls.)
, Heterostegina ocalana (Ocala Ls.)

Other Features :
Sample Type :Core

22 28 Rock Type :No Sample;
Porosity :
Cement:
Accessory Minerals :
Sediment Structures:
Other Features :
Sample Type :Core

28 30 Rock Type :Grainstone;white_N9_76 To yellowish
gray_5Y 8/1_86
Porosity :Intergranular,Intragranular
LimeStone Properties:GRAIN TYPE :
Skeletal,Calcilutite , Biogenic GRAIN SIZE :Very Coarse
Induration:Moderate
Cement:Calcilutite Matrix
Accessory Minerals :
Fossils:Fossil Fragments, Fossil Molds, Benthic
Foraminifera, Mollusks, Echinoid
General Fossils :Fossil Fragments, Fossil Molds,
Benthic Foraminifera, Mollusks, Echinoid
Sediment Structures:
Index Fossils :Sphaerogypsina globulus (Ocala Ls.)
, Lepidocyclina ocalana (Ocala Ls.)

Other Features :Fossilferous
Sample Type :Core

30 32 Rock Type :Grainstone;white_N9_76 To yellowish
gray_5Y 8/1_86
Porosity :Intergranular,Intragranular
LimeStone Properties:GRAIN TYPE :
Skeletal,Calcilutite , Crystals GRAIN SIZE :Gravel
Induration:Moderate
Cement:Calcilutite Matrix, Sparry Calcite
Accessory Minerals :
Fossils:Fossil Fragments, Fossil Molds, Benthic
Foraminifera, Mollusks, Bryozoa
General Fossils :Fossil Fragments, Fossil Molds,
Benthic Foraminifera, Mollusks, Bryozoa
Sediment Structures:
Other Features :Low Recrystallization
Sample Type :Core

32 36 Rock Type :No Sample;
Porosity :

Cement:
Accessory Minerals :
Sediment Structures:
Other Features :
Sample Type :Core

36 40.3 Rock Type :Packstone;white_N9_76 To yellowish gray_5Y 8/1_86
Porosity :Intergranular,Intragranular
LimeStone Properties:GRAIN TYPE : Skeletal,Calcilutite , Crystals GRAIN SIZE :Gravel
Induration:Moderate
Cement:Calcilutite Matrix, Sparry Calcite
Accessory Minerals :
Fossils:Fossil Fragments, Fossil Molds, Benthic Foraminifera, Gastropods
General Fossils :Fossil Fragments, Fossil Molds, Benthic Foraminifera, Gastropods
Sediment Structures:
Index Fossils :Heterostegina ocalana (Ocala Ls.)
Other Features :Low Recrystallization
Sample Type :Core

40.3 42 Rock Type :No Sample;
Porosity :
Cement:
Accessory Minerals :
Sediment Structures:
Other Features :
Sample Type :Core

42 44 Rock Type :Packstone;white_N9_76 To yellowish gray_5Y 8/1_86
Porosity :Intergranular,Intragranular
LimeStone Properties:GRAIN TYPE : Skeletal,Calcilutite , Biogenic GRAIN SIZE :Gravel
Induration:Moderate
Cement:Calcilutite Matrix, Sparry Calcite
Accessory Minerals :
Fossils:Fossil Fragments, Fossil Molds, Benthic Foraminifera
General Fossils :Fossil Fragments, Fossil Molds, Benthic Foraminifera
Sediment Structures:
Index Fossils :Heterostegina ocalana (Ocala Ls.)
Other Features :Low Recrystallization
Sample Type :Core

44 46 Rock Type :Grainstone;white_N9_76 To yellowish gray_5Y 8/1_86
Porosity :Intergranular,Intragranular
LimeStone Properties:GRAIN TYPE : Skeletal,Calcilutite , Biogenic GRAIN SIZE :Gravel
Induration:Moderate
Cement:Calcilutite Matrix, Sparry Calcite
Accessory Minerals :
Fossils:Fossil Fragments, Fossil Molds, Benthic Foraminifera, Mollusks
General Fossils :Fossil Fragments, Fossil Molds, Benthic Foraminifera, Mollusks
Sediment Structures:

Index Fossils :Nummulites ocalanus (Ocala Ls.)

Other Features :Low Recrystallization
Sample Type :Core

46 48 Rock Type :Grainstone;white_N9_76 To yellowish gray_5Y 8/1_86
Porosity :Intergranular,Intragranular
LimeStone Properties:GRAIN TYPE : Skeletal,Calcilutite , Biogenic GRAIN SIZE :Gravel
Induration:Moderate
Cement:Calcilutite Matrix
Accessory Minerals :
Fossils:Fossil Fragments, Fossil Molds, Benthic Foraminifera, Mollusks, Bryozoa
General Fossils :Fossil Fragments, Fossil Molds, Benthic Foraminifera, Mollusks, Bryozoa
Sediment Structures:
Index Fossils :Heterostegina ocalana (Ocala Ls.) , Lepidocyclina ocalana (Ocala Ls.)

Other Features :
Sample Type :Core

48 50 Rock Type :Grainstone;white_N9_76 To yellowish gray_5Y 8/1_86
Porosity :Intergranular,Intragranular
LimeStone Properties:GRAIN TYPE : Skeletal,Calcilutite , Biogenic GRAIN SIZE :Gravel
Induration:Moderate
Cement:Calcilutite Matrix
Accessory Minerals :
Fossils:Fossil Fragments, Fossil Molds, Benthic Foraminifera, Mollusks, Echinoid
General Fossils :Fossil Fragments, Fossil Molds, Benthic Foraminifera, Mollusks, Echinoid
Sediment Structures:
Index Fossils :Nummulites ocalanus (Ocala Ls.)

Other Features :
Sample Type :Core

50 55 Rock Type :Grainstone;white_N9_76 To yellowish gray_5Y 8/1_86
Porosity :Intergranular,Intragranular
LimeStone Properties:GRAIN TYPE : Skeletal,Calcilutite , Biogenic GRAIN SIZE :Gravel
Induration:Moderate
Cement:Calcilutite Matrix
Accessory Minerals :
Fossils:Fossil Fragments, Fossil Molds, Benthic Foraminifera, Mollusks, Miliolids
General Fossils :Fossil Fragments, Fossil Molds, Benthic Foraminifera, Mollusks, Miliolids
Sediment Structures:
Index Fossils :Lepidocyclina ocalana (Ocala Ls.)

Other Features :
Sample Type :Core

55 56.3 Rock Type :Grainstone;white_N9_76 To yellowish gray_5Y 8/1_86
Porosity :Intergranular,Intragranular

		LimeStone Properties:GRAIN TYPE : Skeletal,Calcilutite , Biogenic GRAIN SIZE :Gravel Induration:Moderate Cement:Calcilutite Matrix Accessory Minerals : Fossils:Fossil Fragments, Fossil Molds, Benthic Foraminifera, Mollusks, Miliolids General Fossils :Fossil Fragments, Fossil Molds, Benthic Foraminifera, Mollusks, Miliolids Sediment Structures: Index Fossils :Lepidocyclina ocalana (Ocala Ls.) Other Features : Sample Type :Core
56.3	58.8	Rock Type :Grainstone;white_N9_76 To yellowish gray_5Y 8/1_86 Porosity :Intergranular,Intragranular LimeStone Properties:GRAIN TYPE : Skeletal,Calcilutite , Biogenic GRAIN SIZE :Gravel Induration:Poor Cement:Calcilutite Matrix Accessory Minerals : Fossils:Fossil Fragments, Benthic Foraminifera, Mollusks, Bryozoa General Fossils :Fossil Fragments, Benthic Foraminifera, Mollusks, Bryozoa Sediment Structures: Index Fossils :Sphaerogypsina globulus (Ocala Ls.) , Lepidocyclina ocalana (Ocala Ls.) Other Features : Sample Type :Core
58.8	60	Rock Type :Grainstone;yellowish gray_5Y 8/1_86 To white_N9_76 Porosity :Intergranular,Intragranular LimeStone Properties:GRAIN TYPE : Skeletal,Calcilutite , Biogenic GRAIN SIZE :Gravel Induration:Moderate Cement:Calcilutite Matrix Accessory Minerals : Fossils:Fossil Fragments, Benthic Foraminifera, Mollusks, Bryozoa, Coral General Fossils :Fossil Fragments, Benthic Foraminifera, Mollusks, Bryozoa, Coral Sediment Structures: Index Fossils :Heterostegina ocalana (Ocala Ls.) , Lepidocyclina ocalana (Ocala Ls.) Other Features : Sample Type :Core
60	60.4	Rock Type :No Sample; Porosity : Cement: Accessory Minerals : Sediment Structures: Other Features : Sample Type :Core
60.4	64	Rock Type :No Sample; Porosity :

		Cement: Accessory Minerals : Sediment Structures: Other Features : Sample Type :Core
64	65	Rock Type :No Sample; Porosity : Cement: Accessory Minerals : Sediment Structures: Other Features : Sample Type :Core
65	68	Rock Type :No Sample; Porosity : Cement: Accessory Minerals : Sediment Structures: Other Features : Sample Type :Core
68	68.3	Rock Type :Grainstone;yellowish gray_5Y 8/1_86 To white_N9_76 Porosity :Intergranular,Intragranular LimeStone Properties:GRAIN TYPE : Skeletal,Calcilutite , Crystals GRAIN SIZE :Gravel Induration:Moderate Cement:Calcilutite Matrix Accessory Minerals : Fossils:Fossil Fragments, Fossil Molds, Benthic Foraminifera, Bryozoa, Coral General Fossils :Fossil Fragments, Fossil Molds, Benthic Foraminifera, Bryozoa, Coral Sediment Structures: Index Fossils :Sphaerogypsina globulus (Ocala Ls.) Other Features :Low Recrystallization Sample Type :Core
68.3	70	Rock Type :No Sample; Porosity : Cement: Accessory Minerals : Sediment Structures: Other Features : Sample Type :Core
70	70.5	Rock Type :Grainstone;yellowish gray_5Y 8/1_86 To white_N9_76 Porosity :Intergranular,Intragranular LimeStone Properties:GRAIN TYPE : Skeletal,Calcilutite , Crystals GRAIN SIZE :Gravel Induration:Moderate Cement:Calcilutite Matrix, Sparry Calcite Accessory Minerals : Fossils:Fossil Fragments, Benthic Foraminifera, Miliolids, Coral, Mollusks General Fossils :Fossil Fragments, Benthic Foraminifera, Miliolids, Coral, Mollusks Sediment Structures: Other Features :Low Recrystallization Sample Type :Core

70.5 72 Rock Type :No Sample;
Porosity :
Cement:
Accessory Minerals :
Sediment Structures:
Other Features :
Sample Type :Core

72 74.3 Rock Type :Grainstone;yellowish gray_5Y 8/1_86 To white_N9_76
Porosity :Intergranular,Intragranular
LimeStone Properties:GRAIN TYPE : Skeletal,Calcilutite , Crystals GRAIN SIZE :Gravel
Induration:Moderate
Cement:Calcilutite Matrix, Sparry Calcite
Accessory Minerals :
Fossils:Fossil Fragments, Benthic Foraminifera, Miliolids, Mollusks, Bryozoa
General Fossils :Fossil Fragments, Benthic Foraminifera, Miliolids, Mollusks, Bryozoa
Sediment Structures:
Index Fossils :Heterostegina ocalana (Ocala Ls.)

Other Features :Low Recrystallization
Sample Type :Core

74.3 77.5 Rock Type :No Sample;
Porosity :
Cement:
Accessory Minerals :
Sediment Structures:
Other Features :
Sample Type :Core

77.5 80 Rock Type :Packstone;yellowish gray_5Y 8/1_86 To white_N9_76
Porosity :Intergranular,Intragranular
LimeStone Properties:GRAIN TYPE : Skeletal,Crystals , Calcilutite GRAIN SIZE :Gravel
Induration:Good
Cement:Sparry Calcite, Calcilutite Matrix
Accessory Minerals :
Fossils:Fossil Fragments, Benthic Foraminifera, Miliolids, Mollusks, Bryozoa
General Fossils :Fossil Fragments, Benthic Foraminifera, Miliolids, Mollusks, Bryozoa
Sediment Structures:
Index Fossils :Lepidocyclina ocalana (Ocala Ls.)

Other Features :Medium Recrystallization
Sample Type :Core

80 81.7 Rock Type :No Sample;
Porosity :
Cement:
Accessory Minerals :
Sediment Structures:
Other Features :
Sample Type :Core

81.7 83.5 Rock Type :Grainstone;yellowish gray_5Y 8/1_86
Porosity :Intergranular,Intragranular

		LimeStone Properties:GRAIN TYPE : Skeletal,Crystals , Calcilutite GRAIN SIZE :Very Coarse Induration:Good Cement:Sparry Calcite, Calcilutite Matrix Accessory Minerals : Fossils:Fossil Fragments, Benthic Foraminifera, Bryozoa, Miliolids, Echinoid General Fossils :Fossil Fragments, Benthic Foraminifera, Bryozoa, Miliolids, Echinoid Sediment Structures: Index Fossils :Lepidocyclina ocalana (Ocala Ls.) , Sphaerogypsina globulus (Ocala Ls.) Other Features :Low Recrystallization Sample Type :Core
83.5	87.5	Rock Type :Grainstone;yellowish gray_5Y 8/1_86 Porosity :Intergranular,Intragranular,Moldic LimeStone Properties:GRAIN TYPE : Skeletal,Crystals , Calcilutite GRAIN SIZE :Gravel Induration:Good Cement:Sparry Calcite, Calcilutite Matrix Accessory Minerals : Fossils:Fossil Fragments, Benthic Foraminifera, Miliolids, Mollusks, Bryozoa General Fossils :Fossil Fragments, Benthic Foraminifera, Miliolids, Mollusks, Bryozoa Sediment Structures: Index Fossils :Nummulites ocalanus (Ocala Ls.) , Nummulites floridensis (Ocala Ls.) , Sphaerogypsina globulus (Ocala Ls.) Other Features :Medium Recrystallization, Fossilferous Sample Type :Core
87.5	88	Rock Type :No Sample; Porosity : Cement: Accessory Minerals : Sediment Structures: Other Features : Sample Type :Core
88	89.6	Rock Type :Grainstone;yellowish gray_5Y 8/1_86 Porosity :Intergranular,Intragranular LimeStone Properties:GRAIN TYPE : Skeletal,Calcilutite , Crystals GRAIN SIZE :Very Coarse Induration:Moderate Cement:Calcilutite Matrix, Sparry Calcite Accessory Minerals : Fossils:Fossil Fragments, Miliolids, Benthic Foraminifera, Gastropods General Fossils :Fossil Fragments, Miliolids, Benthic Foraminifera, Gastropods Sediment Structures:Burrowed Index Fossils :Amphistegina pinarensis cosdeni (Ocala Ls.) Other Features :Low Recrystallization Sample Type :Core
89.6	94.7	Rock Type :Grainstone;yellowish gray_5Y 8/1_86

Porosity :Intergranular,Intragranular
LimeStone Properties:GRAIN TYPE : Skeletal,Peloids , Crystals GRAIN SIZE :Very Coarse
Induration:Poor
Cement:Sparry Calcite, Calcilutite Matrix
Accessory Minerals :
Fossils:Fossil Fragments, Miliolids, Benthic Foraminifera, Bryozoa, Mollusks
General Fossils :Fossil Fragments, Miliolids, Benthic Foraminifera, Bryozoa, Mollusks
Sediment Structures:
Index Fossils :Amphistegina pinarensis cosdeni (Ocala Ls.)

Other Features :Low Recrystallization
Sample Type :Core

94.7 99.7 Rock Type :Grainstone;yellowish gray_5Y 8/1_86
Porosity :Intergranular,Intragranular
LimeStone Properties:GRAIN TYPE : Skeletal,Peloids , Crystals GRAIN SIZE :Gravel
Induration:Moderate
Cement:Sparry Calcite, Calcilutite Matrix
Accessory Minerals :
Fossils:Fossil Fragments, Miliolids, Benthic Foraminifera, Mollusks, Echinoid
General Fossils :Fossil Fragments, Miliolids, Benthic Foraminifera, Mollusks, Echinoid
Sediment Structures:
Index Fossils :Amphistegina pinarensis cosdeni (Ocala Ls.)
, Sphaerogypsina globulus (Ocala Ls.)

Other Features :Low Recrystallization
Sample Type :Core

99.7 100.1 Rock Type :Grainstone;yellowish gray_5Y 8/1_86
Porosity :Intergranular,Intragranular
LimeStone Properties:GRAIN TYPE : Skeletal,Peloids , Crystals GRAIN SIZE :Gravel
Induration:Moderate
Cement:Calcilutite Matrix, Sparry Calcite
Accessory Minerals :
Fossils:Fossil Fragments, Miliolids, Benthic Foraminifera, Mollusks, Echinoid
General Fossils :Fossil Fragments, Miliolids, Benthic Foraminifera, Mollusks, Echinoid
Sediment Structures:
Index Fossils :Sphaerogypsina globulus (Ocala Ls.)

Other Features :Low Recrystallization
Sample Type :Core

100.1 105.1 Rock Type :Grainstone;yellowish gray_5Y 8/1_86 To very pale orange_10YR 8/2_29
Porosity :Intergranular,Intragranular
LimeStone Properties:GRAIN TYPE : Skeletal,Peloids , Crystals GRAIN SIZE :Gravel
Induration:Moderate
Cement:Sparry Calcite, Calcilutite Matrix
Accessory Minerals :
Fossils:Fossil Fragments, Miliolids, Echinoid, Mollusks

General Fossils :Fossil Fragments, Miliolids, Echinoid, Mollusks
Sediment Structures:Interbedded
Other Features :Medium Recrystallization
Sample Type :Core

105.1 107.2 Rock Type :Grainstone;yellowish gray_5Y 8/1_86 To very pale orange_10YR 8/2_29
Porosity :Intergranular,Intragranular
LimeStone Properties:GRAIN TYPE : Skeletal,Peloids , Crystals GRAIN SIZE :Gravel
Induration:Moderate
Cement:Sparry Calcite, Calcilutite Matrix
Accessory Minerals :
Fossils:Fossil Fragments, Miliolids, Echinoid, Mollusks
General Fossils :Fossil Fragments, Miliolids, Echinoid, Mollusks
Sediment Structures:Interbedded
Other Features :Medium Recrystallization
Sample Type :Core

107.2 112.2 Rock Type :Grainstone;yellowish gray_5Y 8/1_86 To very pale orange_10YR 8/2_29
Porosity :Intergranular,Intragranular
LimeStone Properties:GRAIN TYPE : Skeletal,Calcilutite , Crystals GRAIN SIZE :Very Coarse
Induration:Poor
Cement:Calcilutite Matrix, Sparry Calcite
Accessory Minerals :
Fossils:Fossil Fragments, Miliolids, Echinoid
General Fossils :Fossil Fragments, Miliolids, Echinoid
Sediment Structures:
Other Features :Low Recrystallization
Sample Type :Core

112.2 116.3 Rock Type :Grainstone;yellowish gray_5Y 8/1_86 To very pale orange_10YR 8/2_29
Porosity :Intergranular,Intragranular
LimeStone Properties:GRAIN TYPE : Skeletal,Calcilutite , Crystals GRAIN SIZE :Very Coarse
Induration:Poor
Cement:Calcilutite Matrix, Sparry Calcite
Accessory Minerals :
Fossils:Fossil Fragments, Miliolids, Echinoid
General Fossils :Fossil Fragments, Miliolids, Echinoid
Sediment Structures:
Other Features :Low Recrystallization
Sample Type :Core

116.3 118.5 Rock Type :Grainstone;yellowish gray_5Y 8/1_86 To very pale orange_10YR 8/2_29
Porosity :Intergranular,Intragranular
LimeStone Properties:GRAIN TYPE : Skeletal,Calcilutite , Crystals GRAIN SIZE :Very Coarse
Induration:Moderate
Cement:Calcilutite Matrix, Sparry Calcite
Accessory Minerals :
Fossils:Fossil Fragments, Miliolids, Mollusks
General Fossils :Fossil Fragments, Miliolids, Mollusks

Sediment Structures:Interbedded
Other Features :Medium Recrystallization
Sample Type :Core

118.5 121.7 Rock Type :Grainstone;yellowish gray_5Y 8/1_86 To very pale orange_10YR 8/2_29
Porosity :Intergranular,Intragranular
LimeStone Properties:GRAIN TYPE : Skeletal,Calcilutite , Crystals GRAIN SIZE :Very Coarse
Induration:Moderate
Cement:Sparry Calcite, Calcilutite Matrix
Accessory Minerals :
Fossils:Fossil Fragments, Miliolids, Fossil Molds, Mollusks, Benthic Foraminifera
General Fossils :Fossil Fragments, Miliolids, Fossil Molds, Mollusks, Benthic Foraminifera
Sediment Structures:
Index Fossils :Sphaerogypsina globulus (Ocala Ls.)
Other Features :Medium Recrystallization
Sample Type :Core

121.7 122.6 Rock Type :Packstone;yellowish gray_5Y 8/1_86
Porosity :Intergranular,Intragranular
LimeStone Properties:GRAIN TYPE : Skeletal,Calcilutite , Crystals GRAIN SIZE :Granular
Induration:Poor
Cement:Calcilutite Matrix, Sparry Calcite
Accessory Minerals :
Fossils:Fossil Fragments, Miliolids, Fossil Molds, Echinoid, Mollusks
General Fossils :Fossil Fragments, Miliolids, Fossil Molds, Echinoid, Mollusks
Sediment Structures:
Other Features :Low Recrystallization
Sample Type :Core

122.6 126.6 Rock Type :Grainstone;yellowish gray_5Y 8/1_86
Porosity :Intergranular,Intragranular,Moldic
LimeStone Properties:GRAIN TYPE : Skeletal,Peloids , Crystals GRAIN SIZE :Gravel
Induration:Moderate
Cement:Sparry Calcite, Calcilutite Matrix
Accessory Minerals :
Fossils:Fossil Fragments, Fossil Molds, Echinoid, Coral, Miliolids
General Fossils :Fossil Fragments, Fossil Molds, Echinoid, Coral, Miliolids
Sediment Structures:
Other Features :Medium Recrystallization, Fossilferous
Sample Type :Core

126.6 131 Rock Type :Grainstone;yellowish gray_5Y 8/1_86 To very pale orange_10YR 8/2_29
Porosity :Intergranular,Intragranular
LimeStone Properties:GRAIN TYPE : Skeletal,Peloids , Crystals GRAIN SIZE :Gravel
Induration:Moderate
Cement:Calcilutite Matrix, Sparry Calcite
Accessory Minerals :
Fossils:Fossil Fragments, Fossil Molds, Echinoid, Miliolids, Mollusks

General Fossils :Fossil Fragments, Fossil Molds, Echinoid, Miliolids, Mollusks
Sediment Structures:
Other Features :Low Recrystallization, Fossilferous
Sample Type :Core

131 132.3 Rock Type :Packstone;yellowish gray_5Y 8/1_86 To very pale orange_10YR 8/2_29
Porosity :Intergranular,Moldic,Low Permeability
LimeStone Properties:GRAIN TYPE : Skeletal,Crystals, Peloids GRAIN SIZE :Gravel
Induration:Good
Cement:Sparry Calcite
Accessory Minerals :
Fossils:Fossil Fragments, Fossil Molds, Mollusks, Miliolids, Echinoid
General Fossils :Fossil Fragments, Fossil Molds, Mollusks, Miliolids, Echinoid
Sediment Structures:
Other Features :Medium Recrystallization, Fossilferous
Sample Type :Core

132.3 134.7 Rock Type :Packstone;yellowish gray_5Y 8/1_86 To very pale orange_10YR 8/2_29
Porosity :Moldic,Possibly High Permeability
LimeStone Properties:GRAIN TYPE : Skeletal,Crystals, Skeletal Cast GRAIN SIZE :Gravel
Induration:Good
Cement:Sparry Calcite
Accessory Minerals :
Fossils:Fossil Fragments, Fossil Molds, Mollusks, Miliolids, Coral
General Fossils :Fossil Fragments, Fossil Molds, Mollusks, Miliolids, Coral
Sediment Structures:
Other Features :Medium Recrystallization, Fossilferous
Sample Type :Core

134.7 137.1 Rock Type :Grainstone;yellowish gray_5Y 8/1_86 To very pale orange_10YR 8/2_29
Porosity :Moldic,Intergranular
LimeStone Properties:GRAIN TYPE : Skeletal,Crystals, Peloids GRAIN SIZE :Very Coarse
Induration:Moderate
Cement:Sparry Calcite, Calcilutite Matrix
Accessory Minerals :
Fossils:Fossil Fragments, Fossil Molds, Mollusks, Echinoid, Crustacea
General Fossils :Fossil Fragments, Fossil Molds, Mollusks, Echinoid, Crustacea
Sediment Structures:
Other Features :Low Recrystallization, Fossilferous
Sample Type :Core

137.1 142.1 Rock Type :Packstone;very pale orange_10YR 8/2_29 To yellowish gray_5Y 8/1_86
Porosity :Intergranular
LimeStone Properties:GRAIN TYPE : Skeletal,Crystals, Calcilutite GRAIN SIZE :Coarse
Induration:Moderate
Cement:Sparry Calcite, Calcilutite Matrix

Accessory Minerals :
Fossils:Fossil Fragments, Miliolids
General Fossils :Fossil Fragments, Miliolids
Sediment Structures:
Other Features :Medium Recrystallization
Sample Type :Core

142.1 147.1 Rock Type :Packstone;very pale orange_10YR 8/2_29 To yellowish gray_5Y 8/1_86
Porosity :Intergranular
LimeStone Properties:GRAIN TYPE : Skeletal,Crystals, Calcilutite GRAIN SIZE :Coarse
Induration:Moderate
Cement:Sparry Calcite, Calcilutite Matrix
Accessory Minerals :
Fossils:Fossil Fragments, Miliolids
General Fossils :Fossil Fragments, Miliolids
Sediment Structures:
Other Features :Medium Recrystallization
Sample Type :Core

147 150.1 Rock Type :Packstone;very pale orange_10YR 8/2_29 To yellowish gray_5Y 8/1_86
Porosity :Intergranular
LimeStone Properties:GRAIN TYPE : Skeletal,Crystals, Calcilutite GRAIN SIZE :Coarse
Induration:Moderate
Cement:Sparry Calcite, Calcilutite Matrix
Accessory Minerals :
Fossils:Fossil Fragments, Miliolids
General Fossils :Fossil Fragments, Miliolids
Sediment Structures:
Other Features :Medium Recrystallization
Sample Type :Core

150.1 154 Rock Type :Packstone;very pale orange_10YR 8/2_29 To dark yellowish orange_10YR 6/6_36
Porosity :Intergranular
LimeStone Properties:GRAIN TYPE : Skeletal,Crystals, Biogenic GRAIN SIZE :Coarse
Induration:Moderate
Cement:Sparry Calcite
Accessory Minerals :Iron Stain-2%
Fossils:Fossil Fragments, Miliolids, Cones
General Fossils :Fossil Fragments, Miliolids, Cones
Sediment Structures:
Index Fossils :Cushmania (Dictyoconus) americana (Avon Park Fm.)

Other Features :Medium Recrystallization
Sample Type :Core

154 159 Rock Type :Packstone;very pale orange_10YR 8/2_29 To yellowish gray_5Y 8/1_86
Porosity :Intergranular,Intragranular
LimeStone Properties:GRAIN TYPE : Skeletal,Crystals, Peloids GRAIN SIZE :Granular
Induration:Moderate
Cement:Sparry Calcite, Calcilutite Matrix
Accessory Minerals :
Fossils:Fossil Fragments, Miliolids, Echinoid, Cones
General Fossils :Fossil Fragments, Miliolids, Echinoid, Cones

Sediment Structures:
Other Features :Medium Recrystallization
Sample Type :Core

159 159.5 Rock Type :No Sample;
Porosity :
Cement:
Accessory Minerals :
Sediment Structures:
Other Features :
Sample Type :Core

159.5 166 Rock Type :Packstone;very pale orange_10YR 8/2_29
Porosity :Intergranular,Intragranular
LimeStone Properties:GRAIN TYPE : Skeletal,Crystals , Peloids GRAIN SIZE :Very Coarse
Induration:Good
Cement:Sparry Calcite, Calcilutite Matrix
Accessory Minerals :Iron Stain-1%
Fossils:Fossil Fragments, Miliolids, Benthic Foraminifera
General Fossils :Fossil Fragments, Miliolids, Benthic Foraminifera
Sediment Structures:Interbedded
Other Features :Medium Recrystallization
Sample Type :Core

166 167 Rock Type :No Sample;
Porosity :
Cement:
Accessory Minerals :
Sediment Structures:
Other Features :
Sample Type :Core

167 168.3 Rock Type :Packstone;very pale orange_10YR 8/2_29
Porosity :Intergranular,Intragranular,Pin Point Vugs
LimeStone Properties:GRAIN TYPE : Skeletal,Crystals , Peloids GRAIN SIZE :Very Coarse
Induration:Good
Cement:Sparry Calcite
Accessory Minerals :Iron Stain-1%
Fossils:Fossil Fragments, Miliolids, Benthic Foraminifera
General Fossils :Fossil Fragments, Miliolids, Benthic Foraminifera
Sediment Structures:
Other Features :Medium Recrystallization
Sample Type :Core

168.3 169.6 Rock Type :No Sample;
Porosity :
Cement:
Accessory Minerals :
Sediment Structures:
Other Features :
Sample Type :Core

169.6 170 Rock Type :Mudstone;very pale orange_10YR 8/2_29 To pale yellowish brown_10YR 6/2_30
Porosity :Low Permeability,Intercrystalline
LimeStone Properties:GRAIN TYPE : Crystals GRAIN SIZE :Medium

Induration:Good
Cement:Sparry Calcite
Accessory Minerals :
Sediment Structures:Banded
Other Features :High Recrystallization, Dolomitic
Sample Type :Core

170 173.2 Rock Type :Wackestone;very pale orange_10YR 8/2_29
Porosity :Intergranular
LimeStone Properties:GRAIN TYPE : Skeletal,Calcilutite , Biogenic GRAIN SIZE :Medium
Induration:Poor
Cement:Calcilutite Matrix
Accessory Minerals :
Fossils:Fossil Fragments
General Fossils :Fossil Fragments
Sediment Structures:
Other Features :Weathered
Sample Type :Core

173.2 174.2 Rock Type :Wackestone;very pale orange_10YR 8/2_29
Porosity :Moldic
LimeStone Properties:GRAIN TYPE : Skeletal,Crystals , Calcilutite GRAIN SIZE :Very Coarse
Induration:Moderate
Cement:Calcilutite Matrix, Sparry Calcite
Accessory Minerals :Iron Stain-<1%
Fossils:Fossil Fragments, Fossil Molds, Miliolids, Mollusks
General Fossils :Fossil Fragments, Fossil Molds, Miliolids, Mollusks
Sediment Structures:Burrowed, Bioturbated
Other Features :Low Recrystallization, Dolomitic, Weathered
Sample Type :Core

174.2 174.4 Rock Type :Mudstone;very pale orange_10YR 8/2_29 To pale yellowish brown_10YR 6/2_30
Porosity :Low Permeability
LimeStone Properties:GRAIN TYPE : Calcilutite,Crystals GRAIN SIZE :Very Fine
Induration:Poor
Cement:Calcilutite Matrix
Accessory Minerals :Iron Stain-1%
Sediment Structures:
Other Features :Dolomitic, Muddy
Sample Type :Core

174.4 178.9 Rock Type :Packstone;very pale orange_10YR 8/2_29 To pale yellowish brown_10YR 6/2_30
Porosity :Intragranular,Moldic,Low Permeability
LimeStone Properties:GRAIN TYPE : Skeletal,Crystals GRAIN SIZE :Very Coarse
Induration:Good
Cement:Sparry Calcite
Accessory Minerals :Iron Stain-<1%
Fossils:Fossil Fragments, Fossil Molds, Miliolids, Mollusks, Benthic Foraminifera
General Fossils :Fossil Fragments, Fossil Molds, Miliolids, Mollusks, Benthic Foraminifera
Sediment Structures:
Index Fossils :Spirolina coryensis (Avon Park Fm.)

Other Features :Medium Recrystallization, Dolomitic
Sample Type :Core

178.9 180.1 Rock Type :Packstone;very pale orange_10YR 8/2_29 To pale yellowish brown_10YR 6/2_30
Porosity :Intragranular
LimeStone Properties:GRAIN TYPE : Skeletal,Crystals GRAIN SIZE :Very Coarse
Induration:Good
Cement:Sparry Calcite
Accessory Minerals :Iron Stain-<1%
Fossils:Fossil Fragments, Miliolids
General Fossils :Fossil Fragments, Miliolids
Sediment Structures:
Other Features :Medium Recrystallization, Dolomitic
Sample Type :Core

180.1 184 Rock Type :Mudstone;very pale orange_10YR 8/2_29 To dark yellowish orange_10YR 6/6_36
Porosity :Low Permeability,Fracture
LimeStone Properties:GRAIN TYPE : Crystals,Calcilutite GRAIN SIZE :Very Fine
Induration:Good
Cement:Sparry Calcite, Calcilutite Matrix
Accessory Minerals :Iron Stain-3%, Clay-<1%
Sediment Structures:Mottled
Other Features :High Recrystallization, Dolomitic, Variegated
Sample Type :Core

184 185.6 Rock Type :No Sample;
Porosity :
Cement:
Accessory Minerals :
Sediment Structures:
Other Features :
Sample Type :Core

185.6 186.6 Rock Type :Dolostone;pale yellowish brown_10YR 6/2_30 To very pale orange_10YR 8/2_29
Porosity :Intercrystalline,Low Permeability
Dolomite Properties:50-90% ALTERED;Undetermined GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :
Sediment Structures:Bioturbated
Other Features :Medium Recrystallization, Calcareous
Sample Type :Core

186.6 186.9 Rock Type :Dolostone;pale yellowish brown_10YR 6/2_30 To very pale orange_10YR 8/2_29
Porosity :Intercrystalline
Dolomite Properties:50-90% ALTERED;Subhedral GRAIN SIZE : Very Fine RANGE :Microcrystalline To Very Fine
Induration:Poor
Cement:Dolomite
Accessory Minerals :
Sediment Structures:
Other Features :Calcareous, Sucrosic
Sample Type :Core

186.9 187.3 Rock Type :Dolostone;pale yellowish brown_10YR

6/2_30 To very pale orange_10YR 8/2_29
Porosity :Intercrystalline,Low Permeability
Dolomite Properties:50-90% ALTERED;Undetermined
GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :
Sediment Structures:Bioturbated
Other Features :Medium Recrystallization, Calcareous
Sample Type :Core

187.3 188.6 Rock Type :Dolostone;very pale orange_10YR 8/2_29 To pale yellowish brown_10YR 6/2_30
Porosity :Moldic,Intercrystalline,Low Permeability
Dolomite Properties:50-90% ALTERED;Undetermined
GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :
Fossils:Fossil Molds, Gastropods
General Fossils :Fossil Molds, Gastropods
Sediment Structures:Bioturbated, Burrowed
Other Features :Medium Recrystallization, Calcareous
Sample Type :Core

188.6 189.7 Rock Type :Dolostone;pale yellowish brown_10YR 6/2_30 To very pale orange_10YR 8/2_29
Porosity :Pin Point Vugs,Intercrystalline
Dolomite Properties:50-90% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :Organics-<1%
Sediment Structures:
Other Features :Medium Recrystallization, Calcareous
Sample Type :Core

189.7 190 Rock Type :Dolostone;moderate yellowish brown_10YR 5/4_34 To pale yellowish brown_10YR 6/2_30
Porosity :Intercrystalline
Dolomite Properties:50-90% ALTERED;Subhedral GRAIN SIZE : Very Fine RANGE :Microcrystalline To Very Fine
Induration:Poor
Cement:Dolomite
Accessory Minerals :Organics-<1%
Sediment Structures:
Other Features :Sucrosic
Sample Type :Core

190 190.8 Rock Type :Mudstone;very pale orange_10YR 8/2_29 To dark yellowish orange_10YR 6/6_36
Porosity :Fracture,Low Permeability
LimeStone Properties:GRAIN TYPE : Crystals GRAIN SIZE :Very Fine
Induration:Good
Cement:Sparry Calcite
Accessory Minerals :Iron Stain-1%, Clay-<1%
Sediment Structures:
Other Features :High Recrystallization, Dolomitic, Variegated
Sample Type :Core

190.8 194 Rock Type :Dolostone;moderate yellowish brown_10YR

5/4_34
Porosity :Intercrystalline,Pin Point Vugs
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Very Fine RANGE :Microcrystalline To Very Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-1%
Sediment Structures:
Other Features :
Sample Type :Core

194 194.9 Rock Type :Dolostone;moderate yellowish brown_10YR 5/4_34
Porosity :Intercrystalline,Pin Point Vugs
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Very Fine RANGE :Microcrystalline To Very Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-1%
Sediment Structures:Interbedded
Other Features :
Sample Type :Core

194.9 196 Rock Type :Dolostone;moderate yellowish brown_10YR 5/4_34
Porosity :Intercrystalline,Pin Point Vugs
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Very Fine RANGE :Microcrystalline To Very Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :Organics-<1%
Sediment Structures:Banded
Other Features :
Sample Type :Core

196 197.3 Rock Type :Dolostone;moderate yellowish brown_10YR 5/4_34
Porosity :Intercrystalline,Moldic
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Very Fine RANGE :Microcrystalline To Very Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-<1%
Fossils:Fossil Molds, Echinoid
General Fossils :Fossil Molds, Echinoid
Sediment Structures:
Other Features :Sucrosic
Sample Type :Core

197.3 200.2 Rock Type :Dolostone;moderate yellowish brown_10YR 5/4_34
Porosity :Intercrystalline,Pin Point Vugs
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Very Fine RANGE :Microcrystalline To Very Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-<1%
Fossils:Fossil Molds
General Fossils :Fossil Molds
Sediment Structures:
Other Features :
Sample Type :Core

200.2 200.9 Rock Type :Mudstone;pale yellowish brown_10YR 6/2_30 To very pale orange_10YR 8/2_29
Porosity :Low Permeability
LimeStone Properties:GRAIN TYPE : Calcilutite,Skeletal GRAIN SIZE :Fine
Induration:Poor
Cement:Calcilutite Matrix
Accessory Minerals :Silt-1%, Organics-<1%
Sediment Structures:
Other Features :Muddy
Sample Type :Core

200.9 206 Rock Type :Packstone;pale yellowish brown_10YR 6/2_30 To very pale orange_10YR 8/2_29
Porosity :Intergranular,Intragranular
LimeStone Properties:GRAIN TYPE : Skeletal,Calcilutite , Crystals GRAIN SIZE :Very Coarse
Induration:Moderate
Cement:Calcilutite Matrix, Sparry Calcite
Accessory Minerals :Organics-1%
Fossils:Fossil Fragments, Miliolids, Benthic Foraminifera, Echinoid
General Fossils :Fossil Fragments, Miliolids, Benthic Foraminifera, Echinoid
Sediment Structures:
Other Features :Medium Recrystallization, Weathered
Sample Type :Core

206 206.9 Rock Type :Dolostone;pale yellowish brown_10YR 6/2_30
Porosity :Intercrystalline,Low Permeability
Dolomite Properties:50-90% ALTERED;Subhedral GRAIN SIZE : Very Fine RANGE :Microcrystalline To Very Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :
Sediment Structures:
Other Features :Calcareous, Medium Recrystallization
Sample Type :Core

206.9 209.2 Rock Type :Packstone;very pale orange_10YR 8/2_29 To pale yellowish brown_10YR 6/2_30
Porosity :Intergranular,Intragranular
LimeStone Properties:GRAIN TYPE : Skeletal,Crystals , Calcilutite GRAIN SIZE :Very Coarse
Induration:Moderate
Cement:Calcilutite Matrix, Sparry Calcite
Accessory Minerals :Organics-<1%
Fossils:Fossil Fragments, Miliolids, Benthic Foraminifera
General Fossils :Fossil Fragments, Miliolids, Benthic Foraminifera
Sediment Structures:
Index Fossils :Cribrobullimina (Valvulina) cushmani (Avon Park Fm.)
Other Features :Medium Recrystallization, Dolomitic
Sample Type :Core

209.2 210 Rock Type :No Sample;
Porosity :
Cement:
Accessory Minerals :

Sediment Structures:
Other Features :
Sample Type :Core

210 211.2 Rock Type :Packstone;very pale orange_10YR 8/2_29 To pale yellowish brown_10YR 6/2_30
Porosity :Intergranular,Intragranular
LimeStone Properties:GRAIN TYPE : Skeletal,Crystals, Calcilutite GRAIN SIZE :Very Coarse
Induration:Moderate
Cement:Calcilutite Matrix, Sparry Calcite
Accessory Minerals :Organics-<1%
Fossils:Fossil Fragments, Miliolids, Benthic Foraminifera
General Fossils :Fossil Fragments, Miliolids, Benthic Foraminifera
Sediment Structures:
Index Fossils :Cribrobullimina (Valvulina) cushmani (Avon Park Fm.)

Other Features :Medium Recrystallization, Dolomitic
Sample Type :Core

211.2 212.5 Rock Type :Packstone;very pale orange_10YR 8/2_29 To pale yellowish brown_10YR 6/2_30
Porosity :Intergranular,Intragranular
LimeStone Properties:GRAIN TYPE : Skeletal,Crystals, Calcilutite GRAIN SIZE :Very Coarse
Induration:Moderate
Cement:Calcilutite Matrix, Sparry Calcite
Accessory Minerals :Organics-<1%
Fossils:Fossil Fragments, Miliolids, Benthic Foraminifera
General Fossils :Fossil Fragments, Miliolids, Benthic Foraminifera
Sediment Structures:Mottled
Other Features :Medium Recrystallization, Dolomitic
Sample Type :Core

212.5 215 Rock Type :Packstone;pale yellowish brown_10YR 6/2_30 To moderate yellowish brown_10YR 5/4_34
Porosity :Intergranular,Intragranular
LimeStone Properties:GRAIN TYPE : Skeletal,Crystals, Calcilutite GRAIN SIZE :Very Coarse
Induration:Moderate
Cement:Calcilutite Matrix, Sparry Calcite
Accessory Minerals :Dolomite-30%, Organics-<1%
Fossils:Fossil Fragments, Miliolids, Cones
General Fossils :Fossil Fragments, Miliolids, Cones
Sediment Structures:
Other Features :Low Recrystallization, Dolomitic, Variegated
Sample Type :Core

215 218.1 Rock Type :Dolostone;moderate yellowish brown_10YR 5/4_34 To pale yellowish brown_10YR 6/2_30
Porosity :Intergranular,Intercrystalline
Dolomite Properties:50-90% ALTERED;Subhedral GRAIN SIZE : Very Fine RANGE :Microcrystalline To Medium
Induration:Moderate
Cement:Dolomite, Calcilutite Matrix
Accessory Minerals :Calcilutite-15%
Fossils:Fossil Fragments

General Fossils :Fossil Fragments
Sediment Structures:
Other Features :Low Recrystallization, Calcareous, Variegated
Sample Type :Core

218.1 219.5 Rock Type :Wackestone;very pale orange_10YR 8/2_29 To moderate yellowish brown_10YR 5/4_34
Porosity :Intergranular,Intercrystalline
LimeStone Properties:GRAIN TYPE : Calcilutite,Skeletal , Calcilutite GRAIN SIZE :Coarse
Induration:Moderate
Cement:Calcilutite Matrix
Accessory Minerals :Dolomite-20%
Fossils:Fossil Fragments
General Fossils :Fossil Fragments
Sediment Structures:
Other Features :Low Recrystallization, Dolomitic, Variegated
Sample Type :Core

219.5 222.3 Rock Type :Dolostone;moderate yellowish brown_10YR 5/4_34
Porosity :Intercrystalline,Intergranular
Dolomite Properties:50-90% ALTERED;Subhedral GRAIN SIZE : Very Fine RANGE :Microcrystalline To Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :
Fossils:Fossil Fragments, Echinoid, Miliolids
General Fossils :Fossil Fragments, Echinoid, Miliolids
Sediment Structures:
Other Features :Low Recrystallization, Calcareous
Sample Type :Core

222.3 223.8 Rock Type :Dolostone;moderate yellowish brown_10YR 5/4_34 To very pale orange_10YR 8/2_29
Porosity :Intercrystalline,Intergranular
Dolomite Properties:50-90% ALTERED;Subhedral GRAIN SIZE : Very Fine RANGE :Microcrystalline To Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Calcilutite-15%
Fossils:Fossil Fragments
General Fossils :Fossil Fragments
Sediment Structures:
Other Features :Low Recrystallization, Calcareous
Sample Type :Core

223.8 225.6 Rock Type :Dolostone;moderate yellowish brown_10YR 5/4_34
Porosity :Intercrystalline,Intergranular,Possibly High Permeability
Dolomite Properties:50-90% ALTERED;Subhedral GRAIN SIZE : Fine RANGE :Microcrystalline To Medium
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Limestone-<1%
Fossils:Fossil Fragments, Echinoid
General Fossils :Fossil Fragments, Echinoid
Sediment Structures:
Other Features :Medium Recrystallization, Calcareous

Sample Type :Core

225.6 227 Rock Type :Dolostone;moderate yellowish brown_10YR 5/4_34
Porosity :Pin Point Vugs,Vugular,Low Permeability
Dolomite Properties:90-100% ALTERED;Undetermined GRAIN SIZE : Microcrystalline RANGE :Cryptocrystalline To Very Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :Organics-<1%
Sediment Structures:
Other Features :Calcareous, Crystalline
Sample Type :Core

227 228.9 Rock Type :Dolostone;moderate yellowish brown_10YR 5/4_34
Porosity :Intercrystalline,Pin Point Vugs,Fracture
Dolomite Properties:90-100% ALTERED;Undetermined GRAIN SIZE : Microcrystalline RANGE :Cryptocrystalline To Very Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :
Sediment Structures:
Other Features :
Sample Type :Core

228.9 229.4 Rock Type :Dolostone;moderate yellowish brown_10YR 5/4_34
Porosity :Intercrystalline,Intergranular
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Very Fine RANGE :Microcrystalline To Very Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :
Fossils:Fossil Fragments
General Fossils :Fossil Fragments
Sediment Structures:
Other Features :
Sample Type :Core

229.4 230.5 Rock Type :Dolostone;moderate yellowish brown_10YR 5/4_34
Porosity :Intercrystalline,Intergranular
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Very Fine RANGE :Microcrystalline To Very Fine
Induration:Poor
Cement:Dolomite
Accessory Minerals :
Sediment Structures:
Other Features :
Sample Type :Core

230.5 234.6 Rock Type :Dolostone; To dark yellowish orange_10YR 6/6_36
Porosity :Moldic,Intercrystalline
Dolomite Properties:50-90% ALTERED;Subhedral GRAIN SIZE : Very Fine RANGE :Microcrystalline To Very Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :
Fossils:Fossil Molds, Mollusks, Echinoid
General Fossils :Fossil Molds, Mollusks, Echinoid
Sediment Structures:Bedded

Other Features :
Sample Type :Core

234.6 239.3 Rock Type :Dolostone; To moderate yellowish brown_10YR 5/4_34
Porosity :Low Permeability,Pin Point Vugs
Dolomite Properties:50-90% ALTERED;Undetermined GRAIN SIZE : Microcrystalline RANGE :Cryptocrystalline To Very Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :
Sediment Structures:Bedded
Other Features :Low Recrystallization, Crystalline
Sample Type :Core

239.3 240.5 Rock Type :Dolostone;very pale orange_10YR 8/2_29 To pale yellowish brown_10YR 6/2_30
Porosity :Moldic
Dolomite Properties:50-90% ALTERED;Undetermined GRAIN SIZE : Microcrystalline RANGE :Cryptocrystalline To Very Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :
Fossils:Fossil Molds, Mollusks, Gastropods, Echinoid
General Fossils :Fossil Molds, Mollusks, Gastropods, Echinoid
Sediment Structures:
Other Features :Medium Recrystallization
Sample Type :Core

240.5 242 Rock Type :Dolostone; To dark yellowish orange_10YR 6/6_36
Porosity :Moldic,Intercrystalline
Dolomite Properties:50-90% ALTERED;Subhedral GRAIN SIZE : Very Fine RANGE :Microcrystalline To Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :
Sediment Structures:Bedded
Other Features :Low Recrystallization, Weathered
Sample Type :Core

242 246.5 Rock Type :Dolostone; To dark yellowish orange_10YR 6/6_36
Porosity :Moldic,Pin Point Vugs
Dolomite Properties:50-90% ALTERED;Subhedral GRAIN SIZE : Very Fine RANGE :Microcrystalline To Very Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :
Fossils:Fossil Molds, Mollusks, Coral
General Fossils :Fossil Molds, Mollusks, Coral
Sediment Structures:
Other Features :Low Recrystallization
Sample Type :Core

246.5 248.8 Rock Type :Dolostone; To pale yellowish brown_10YR 6/2_30
Porosity :Pin Point Vugs,Intercrystalline
Dolomite Properties:50-90% ALTERED;Subhedral GRAIN SIZE : Very Fine RANGE :Microcrystalline To Very Fine
Induration:Moderate
Cement:Dolomite

Accessory Minerals :Silt-<1%
Fossils:Fossil Molds, Mollusks
General Fossils :Fossil Molds, Mollusks
Sediment Structures:Banded
Other Features :
Sample Type :Core

248.8 249.3 Rock Type :Dolostone;
Porosity :Pin Point Vugs,Intercrystalline
Dolomite Properties:50-90% ALTERED;Subhedral GRAIN SIZE : Very Fine RANGE :Microcrystalline To Very Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Silt-<1%
Fossils:Fossil Molds
General Fossils :Fossil Molds
Sediment Structures:Banded
Other Features :
Sample Type :Core

249.3 251 Rock Type :Dolostone;pale yellowish brown_10YR 6/2_30
Porosity :Pin Point Vugs,Intercrystalline
Dolomite Properties:50-90% ALTERED;Subhedral GRAIN SIZE : Very Fine RANGE :Microcrystalline To Very Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Clay-1%, Organics-<1%
Sediment Structures:Streaked, Laminated
Other Features :
Sample Type :Core

251 251.5 Rock Type :Dolostone; To dark yellowish orange_10YR 6/6_36
Porosity :Pin Point Vugs,Intercrystalline
Dolomite Properties:50-90% ALTERED;Subhedral GRAIN SIZE : Very Fine RANGE :Microcrystalline To Very Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Iron Stain-<1%
Fossils:Fossil Molds
General Fossils :Fossil Molds
Sediment Structures:Banded
Other Features :
Sample Type :Core

251.5 255 Rock Type :Dolostone; To dark yellowish orange_10YR 6/6_36
Porosity :Moldic,Intercrystalline
Dolomite Properties:50-90% ALTERED;Subhedral GRAIN SIZE : Very Fine RANGE :Microcrystalline To Very Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Iron Stain-<1%, Organics-<1%
Fossils:Fossil Molds, Mollusks, Plant Remains
General Fossils :Fossil Molds, Mollusks, Plant Remains
Sediment Structures:Bioturbated, Burrowed, Banded
Other Features :
Sample Type :Core

255 259.1 Rock Type :Dolostone;
Porosity :Intercrystalline,Pin Point Vugs

Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Very Fine RANGE :Very Fine To Very Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Iron Stain-<1%
Sediment Structures:Interbedded
Other Features :
Sample Type :Core

259.1 259.4 Rock Type :Dolostone;
Porosity :Fracture,Pin Point Vugs
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Very Fine RANGE :Microcrystalline To Very Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :
Fossils:Fossil Molds
General Fossils :Fossil Molds
Sediment Structures:Bioturbated, Burrowed
Other Features :
Sample Type :Core

259.4 260 Rock Type :Dolostone;
Porosity :Intercrystalline,Pin Point Vugs
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Very Fine RANGE :Microcrystalline To Very Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :
Fossils:Fossil Molds
General Fossils :Fossil Molds
Sediment Structures:
Other Features :Sucrosic
Sample Type :Core

260 260.5 Rock Type :Dolostone;
Porosity :Intercrystalline,Pin Point Vugs
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Very Fine RANGE :Microcrystalline To Very Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :
Sediment Structures:Banded
Other Features :Sucrosic
Sample Type :Core

260.5 264.5 Rock Type :Dolostone; To dark yellowish orange_10YR 6/6_36
Porosity :Intercrystalline,Fracture,Moldic
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Very Fine RANGE :Microcrystalline To Very Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Iron Stain-<1%
Fossils:Fossil Molds
General Fossils :Fossil Molds
Sediment Structures:
Other Features :
Sample Type :Core

264.5 264.9 Rock Type :Dolostone; To moderate yellowish brown_10YR 5/4_34
Porosity :Fracture,Intercrystalline

Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Very Fine RANGE :Microcrystalline To Very Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Iron Stain-1%
Fossils:Fossil Molds
General Fossils :Fossil Molds
Sediment Structures:Bedded
Other Features :
Sample Type :Core

264.9 265.7 Rock Type :Dolostone; To pale yellowish brown_10YR 6/2_30
Porosity :Moldic,Pin Point Vugs,Intercrystalline
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :Iron Stain-<1%, Calcite-<1%
Fossils:Fossil Molds, Mollusks, Miliolids, Coral
General Fossils :Fossil Molds, Mollusks, Miliolids, Coral
Sediment Structures:
Other Features :Low Recrystallization
Sample Type :Core

265.7 267.6 Rock Type :Dolostone;very pale orange_10YR 8/2_29
Porosity :Pin Point Vugs,Intercrystalline,Fracture
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Very Fine RANGE :Microcrystalline To Very Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :Iron Stain-<1%
Fossils:Fossil Molds
General Fossils :Fossil Molds
Sediment Structures:Bedded
Other Features :
Sample Type :Core

267.3 268.4 Rock Type :Dolostone;very pale orange_10YR 8/2_29
Porosity :Intercrystalline
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Very Fine RANGE :Very Fine To Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :
Sediment Structures:
Other Features :Sucrosic
Sample Type :Core

268.4 271.1 Rock Type :Dolostone;very pale orange_10YR 8/2_29 To pale yellowish brown_10YR 6/2_30
Porosity :Moldic,Intercrystalline,Pin Point Vugs
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Very Fine RANGE :Microcrystalline To Very Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :
Fossils:Fossil Molds, Mollusks
General Fossils :Fossil Molds, Mollusks
Sediment Structures:Bioturbated
Other Features :
Sample Type :Core

271.1 272.4 Rock Type :Dolostone;pale yellowish brown_10YR 6/2_30 To very pale orange_10YR 8/2_29
Porosity :Moldic,Intercrystalline
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Very Fine RANGE :Microcrystalline To Very Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Silt-<1%
Fossils:Fossil Molds
General Fossils :Fossil Molds
Sediment Structures:
Other Features :
Sample Type :Core

272.4 273 Rock Type :Dolostone;pale yellowish brown_10YR 6/2_30 To very pale orange_10YR 8/2_29
Porosity :Pin Point Vugs,Intercrystalline,Fracture
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :Iron Stain-<1%
Sediment Structures:Banded
Other Features :
Sample Type :Core

273 273.7 Rock Type :Dolostone;very pale orange_10YR 8/2_29 To pale yellowish brown_10YR 6/2_30
Porosity :Intercrystalline,Moldic
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :
Fossils:Fossil Molds, Gastropods
General Fossils :Fossil Molds, Gastropods
Sediment Structures:Bedded
Other Features :Weathered
Sample Type :Core

273.7 274.4 Rock Type :Dolostone;pale yellowish brown_10YR 6/2_30 To very pale orange_10YR 8/2_29
Porosity :Pin Point Vugs,Intercrystalline
Dolomite Properties:90-100% ALTERED;Undetermined GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Silt-1%
Sediment Structures:Bioturbated
Other Features :Variegated
Sample Type :Core

274.4 274.9 Rock Type :Dolostone;moderate yellowish brown_10YR 5/4_34
Porosity :Moldic,Intercrystalline
Dolomite Properties:90-100% ALTERED;Undetermined GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :
Fossils:Fossil Molds, Mollusks, Miliolids
General Fossils :Fossil Molds, Mollusks, Miliolids

Sediment Structures:
Other Features :Weathered
Sample Type :Core

274.9 278.4 Rock Type :Dolostone;moderate yellowish brown_10YR 5/4_34 To pale yellowish brown_10YR 6/2_30
Porosity :Moldic,Intercrystalline
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Very Fine RANGE :Microcrystalline To Very Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :
Fossils:Fossil Molds, Mollusks, Miliolids, Algae
General Fossils :Fossil Molds, Mollusks, Miliolids, Algae
Sediment Structures:
Other Features :
Sample Type :Core

278.4 279.3 Rock Type :Dolostone;pale yellowish brown_10YR 6/2_30 To dark yellowish brown_10YR 4/2_31
Porosity :Low Permeability,Intercrystalline
Dolomite Properties:50-90% ALTERED;Undetermined GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :Organics-1%, Silt-1%
Sediment Structures:Bedded, Streaked
Other Features :
Sample Type :Core

279.3 281.3 Rock Type :Dolostone;moderate yellowish brown_10YR 5/4_34 To pale yellowish brown_10YR 6/2_30
Porosity :Moldic,Pin Point Vugs
Dolomite Properties:90-100% ALTERED;Undetermined GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Silt-<1%
Fossils:Fossil Molds, Mollusks
General Fossils :Fossil Molds, Mollusks
Sediment Structures:
Other Features :Variegated
Sample Type :Core

281.3 282 Rock Type :No Sample;
Porosity :
Cement:
Accessory Minerals :
Sediment Structures:
Other Features :
Sample Type :Core

282 282.4 Rock Type :Dolostone;moderate yellowish brown_10YR 5/4_34 To pale yellowish brown_10YR 6/2_30
Porosity :Moldic,Pin Point Vugs
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Very Fine RANGE :Microcrystalline To Very Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Silt-<1%
Fossils:Fossil Molds, Mollusks
General Fossils :Fossil Molds, Mollusks

Sediment Structures:
Other Features :
Sample Type :Core

282.4 282.7 Rock Type :Dolostone; To dark yellowish brown_10YR 4/2_31
Porosity :Moldic,Pin Point Vugs
Dolomite Properties:50-90% ALTERED;Subhedral GRAIN SIZE : Very Fine RANGE :Microcrystalline To Very Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Clay-2%, Organics-1%
Fossils:Fossil Molds, Miliolids
General Fossils :Fossil Molds, Miliolids
Sediment Structures:Laminated
Other Features :Calcareous
Sample Type :Core

282.7 283.6 Rock Type :Dolostone;pale yellowish brown_10YR 6/2_30 To light olive gray_5Y 6/1_87
Porosity :Moldic,Intercrystalline
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Very Fine RANGE :Microcrystalline To Very Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :
Fossils:Fossil Molds, Mollusks, Miliolids
General Fossils :Fossil Molds, Mollusks, Miliolids
Sediment Structures:
Other Features :
Sample Type :Core

283.6 286 Rock Type :Dolostone; To pale yellowish brown_10YR 6/2_30
Porosity :Moldic,Intercrystalline
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Very Fine RANGE :Microcrystalline To Very Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-<1%
Fossils:Fossil Molds, Miliolids, Mollusks
General Fossils :Fossil Molds, Miliolids, Mollusks
Sediment Structures:Banded
Other Features :
Sample Type :Core

286 287.1 Rock Type :Dolostone;very pale orange_10YR 8/2_29
Porosity :Intercrystalline,Vugular
Dolomite Properties:50-90% ALTERED;Subhedral GRAIN SIZE : Very Fine RANGE :Microcrystalline To Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :Calcite-1%
Fossils:Algae
General Fossils :Algae
Sediment Structures:
Other Features :Low Recrystallization
Sample Type :Core

287.1 287.5 Rock Type :No Sample;
Porosity :
Cement:
Accessory Minerals :

Sediment Structures:
Other Features :
Sample Type :Core

287.5 288 Rock Type :Dolostone;very pale orange_10YR 8/2_29 To dark yellowish orange_10YR 6/6_36
Porosity :Low Permeability,Pin Point Vugs
Dolomite Properties:50-90% ALTERED;Undetermined GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :Iron Stain-<1%
Sediment Structures:
Other Features :
Sample Type :Core

288 288.5 Rock Type :Dolostone;very pale orange_10YR 8/2_29
Porosity :Moldic,Intercrystalline
Dolomite Properties:50-90% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Iron Stain-<1%
Fossils:Fossil Molds, Mollusks, Gastropods, Miliolids
General Fossils :Fossil Molds, Mollusks, Gastropods, Miliolids
Sediment Structures:
Other Features :Low Recrystallization
Sample Type :Core

288.5 289.3 Rock Type :Dolostone;very pale orange_10YR 8/2_29
Porosity :Intercrystalline,Vugular
Dolomite Properties:50-90% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :Calcite-2%
Fossils:Algae
General Fossils :Algae
Sediment Structures:
Other Features :Medium Recrystallization, Calcareous
Sample Type :Core

289.3 290.1 Rock Type :Dolostone;very pale orange_10YR 8/2_29
Porosity :Moldic,Intercrystalline
Dolomite Properties:50-90% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Calcite-<1%
Fossils:Fossil Molds, Mollusks, Miliolids, Algae
General Fossils :Fossil Molds, Mollusks, Miliolids, Algae
Sediment Structures:
Other Features :Low Recrystallization, Calcareous
Sample Type :Core

290.1 290.9 Rock Type :Dolostone;pale yellowish brown_10YR 6/2_30 To very pale orange_10YR 8/2_29
Porosity :Pin Point Vugs
Dolomite Properties:50-90% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine

Induration:Good
Cement:Dolomite
Accessory Minerals :Pyrite-<1%
Fossils:Fossil Molds, Algae
General Fossils :Fossil Molds, Algae
Sediment Structures:
Other Features :Calcareous, Speckled
Sample Type :Core

290.9 291.5 Rock Type :Dolostone;pale yellowish brown_10YR 6/2_30
Porosity :Pin Point Vugs,Intercrystalline
Dolomite Properties:50-90% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :
Fossils:Fossil Molds, Miliolids
General Fossils :Fossil Molds, Miliolids
Sediment Structures:Banded
Other Features :
Sample Type :Core

291.5 294.3 Rock Type :Dolostone; To pale yellowish brown_10YR 6/2_30
Porosity :Moldic,Intercrystalline
Dolomite Properties:50-90% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :
Fossils:Fossil Molds, Miliolids, Mollusks
General Fossils :Fossil Molds, Miliolids, Mollusks
Sediment Structures:
Other Features :Calcareous, Fossilferous
Sample Type :Core

294.3 294.9 Rock Type :Dolostone; To pale yellowish brown_10YR 6/2_30
Porosity :Moldic,Intercrystalline,Possibly High Permeability
Dolomite Properties:50-90% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Iron Stain-<1%
Fossils:Fossil Molds, Miliolids, Mollusks
General Fossils :Fossil Molds, Miliolids, Mollusks
Sediment Structures:
Other Features :Weathered
Sample Type :Core

294.9 295.5 Rock Type :Dolostone; To pale yellowish brown_10YR 6/2_30
Porosity :Moldic,Intercrystalline
Dolomite Properties:50-90% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :
Fossils:Fossil Molds, Miliolids, Mollusks
General Fossils :Fossil Molds, Miliolids, Mollusks
Sediment Structures:

Other Features :Calcareous, Fossilferous
Sample Type :Core

295.5 296 Rock Type :No Sample;
Porosity :
Cement:
Accessory Minerals :
Sediment Structures:
Other Features :
Sample Type :Core

296 296.3 Rock Type :Dolostone; To pale yellowish brown_10YR 6/2_30
Porosity :Intercrystalline,Moldic
Dolomite Properties:50-90% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :
Fossils:Fossil Molds, Miliolids, Mollusks
General Fossils :Fossil Molds, Miliolids, Mollusks
Sediment Structures:
Other Features :Calcareous, Fossilferous
Sample Type :Core

296.3 297.6 Rock Type :Dolostone;moderate yellowish brown_10YR 5/4_34 To dark yellowish brown_10YR 4/2_31
Porosity :Intercrystalline,Moldic
Dolomite Properties:90-100% ALTERED;Undetermined GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Clay-2%, Organics-2%
Fossils:Fossil Molds
General Fossils :Fossil Molds
Sediment Structures:Streaked, Laminated
Other Features :
Sample Type :Core

297.6 298.5 Rock Type :Dolostone;pale yellowish brown_10YR 6/2_30 To very pale orange_10YR 8/2_29
Porosity :Pin Point Vugs
Dolomite Properties:90-100% ALTERED;Undetermined GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Iron Stain-<1%
Sediment Structures:Banded
Other Features :Partings
Sample Type :Core

298.5 298.9 Rock Type :Dolostone; To very pale orange_10YR 8/2_29
Porosity :Intercrystalline,Intergranular
Dolomite Properties:50-90% ALTERED;Undetermined GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Iron Stain-<1%
Fossils:Fossil Molds
General Fossils :Fossil Molds
Sediment Structures:
Other Features :Low Recrystallization

Sample Type :Core

298.9 299.1 Rock Type :Dolostone;pale yellowish brown_10YR 6/2_30 To very pale orange_10YR 8/2_29
Porosity :Low Permeability
Dolomite Properties:90-100% ALTERED;Undetermined GRAIN SIZE : Microcrystalline RANGE :Cryptocrystalline To Microcrystalline
Induration:Good
Cement:Dolomite
Accessory Minerals :
Sediment Structures:
Other Features :Partings
Sample Type :Core

299.1 300 Rock Type :Dolostone;pale yellowish brown_10YR 6/2_30
Porosity :Pin Point Vugs,Moldic
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :
Fossils:Fossil Molds, Mollusks, Miliolids
General Fossils :Fossil Molds, Mollusks, Miliolids
Sediment Structures:
Other Features :
Sample Type :Core

300 302.2 Rock Type :Dolostone;pale yellowish brown_10YR 6/2_30
Porosity :Moldic,Pin Point Vugs,Intercrystalline
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Silt-<1%
Fossils:Fossil Molds, Mollusks, Miliolids
General Fossils :Fossil Molds, Mollusks, Miliolids
Sediment Structures:
Other Features :
Sample Type :Core

302.2 303 Rock Type :Dolostone;pale yellowish brown_10YR 6/2_30
Porosity :Pin Point Vugs,Intercrystalline
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-1%, Silt-<1%
Fossils:Fossil Molds, Mollusks, Miliolids
General Fossils :Fossil Molds, Mollusks, Miliolids
Sediment Structures:Banded
Other Features :
Sample Type :Core

303 303.3 Rock Type :Dolostone;pale yellowish brown_10YR 6/2_30
Porosity :Low Permeability
Dolomite Properties:90-100% ALTERED;Undetermined GRAIN SIZE : Microcrystalline RANGE :Cryptocrystalline To Microcrystalline
Induration:Good
Cement:Dolomite

Accessory Minerals :
Sediment Structures:
Other Features :
Sample Type :Core

303.3 304.2 Rock Type :Dolostone;pale yellowish brown_10YR 6/2_30
Porosity :Intercrystalline,Intergranular
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :
Sediment Structures:
Other Features :
Sample Type :Core

304.2 306.7 Rock Type :Dolostone;pale yellowish brown_10YR 6/2_30
Porosity :Pin Point Vugs,Intercrystalline,Fracture
Dolomite Properties:50-90% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :Organics-<1%, Pyrite-<1%
Fossils:Fossil Molds, Miliolids
General Fossils :Fossil Molds, Miliolids
Sediment Structures:
Other Features :Speckled
Sample Type :Core

306.7 307.3 Rock Type :Dolostone;dark yellowish brown_10YR 4/2_31 To pale yellowish brown_10YR 6/2_30
Porosity :Pin Point Vugs,Intercrystalline
Dolomite Properties:50-90% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-2%, Clay-2%
Fossils:Fossil Molds
General Fossils :Fossil Molds
Sediment Structures:Streaked, Laminated
Other Features :
Sample Type :Core

307.3 310.4 Rock Type :Dolostone; To pale yellowish brown_10YR 6/2_30
Porosity :Intercrystalline,Pin Point Vugs,Fracture
Dolomite Properties:50-90% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-<1%
Fossils:Fossil Molds, Mollusks
General Fossils :Fossil Molds, Mollusks
Sediment Structures:
Other Features :
Sample Type :Core

310.4 311.7 Rock Type :Dolostone; To pale yellowish brown_10YR 6/2_30
Porosity :Intercrystalline,Pin Point Vugs
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN

SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-<1%
Fossils:Fossil Molds
General Fossils :Fossil Molds
Sediment Structures:Streaked
Other Features :
Sample Type :Core

311.7 313.2 Rock Type :Dolostone;moderate yellowish brown_10YR 5/4_34
Porosity :Intercrystalline,Pin Point Vugs
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Very Fine RANGE :Microcrystalline To Very Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :
Fossils:Fossil Molds
General Fossils :Fossil Molds
Sediment Structures:
Other Features :
Sample Type :Core

313.2 315.5 Rock Type :Dolostone;pale yellowish brown_10YR 6/2_30
Porosity :Pin Point Vugs
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Cryptocrystalline To Very Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-<1%, Clay-<1%
Fossils:Fossil Molds
General Fossils :Fossil Molds
Sediment Structures:Bedded, Streaked
Other Features :Variegated
Sample Type :Core

315.5 317.5 Rock Type :Dolostone; To pale yellowish brown_10YR 6/2_30
Porosity :Moldic,Intercrystalline
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-<1%
Fossils:Fossil Molds, Mollusks
General Fossils :Fossil Molds, Mollusks
Sediment Structures:Bedded
Other Features :
Sample Type :Core

317.5 318.8 Rock Type :Dolostone;pale yellowish brown_10YR 6/2_30
Porosity :Moldic
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :Organics-<1%
Fossils:Fossil Molds, Mollusks, Miliolids, Plant Remains
General Fossils :Fossil Molds, Mollusks, Miliolids,

Plant Remains
Sediment Structures:
Other Features :
Sample Type :Core

318.8 319.3 Rock Type :Dolostone;pale yellowish brown_10YR 6/2_30
Porosity :Pin Point Vugs
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Cryptocrystalline To Very Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :
Fossils:Fossil Molds
General Fossils :Fossil Molds
Sediment Structures:Banded
Other Features :Partings
Sample Type :Core

319.3 322.5 Rock Type :Dolostone; To pale yellowish brown_10YR 6/2_30
Porosity :Pin Point Vugs,Intercrystalline
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :
Fossils:Fossil Molds, Mollusks
General Fossils :Fossil Molds, Mollusks
Sediment Structures:
Other Features :
Sample Type :Core

322.5 323 Rock Type :Dolostone; To pale yellowish brown_10YR 6/2_30
Porosity :Low Permeability,Pin Point Vugs
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Cryptocrystalline To Microcrystalline
Induration:Good
Cement:Dolomite
Accessory Minerals :Organics-<1%
Sediment Structures:
Other Features :
Sample Type :Core

323 323.5 Rock Type :Dolostone; To dark yellowish brown_10YR 4/2_31
Porosity :Intercrystalline,Pin Point Vugs
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-<1%, Clay-<1%
Sediment Structures:Bedded, Streaked
Other Features :
Sample Type :Core

323.5 324.5 Rock Type :Dolostone; To pale yellowish brown_10YR 6/2_30
Porosity :Moldic,Intercrystalline
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Moderate

Cement:Dolomite
Accessory Minerals :
Fossils:Fossil Molds, Mollusks, Miliolids
General Fossils :Fossil Molds, Mollusks, Miliolids
Sediment Structures:
Other Features :
Sample Type :Core

324.5 326.3 Rock Type :Dolostone;moderate yellowish brown_10YR 5/4_34
Porosity :Pin Point Vugs,Intercrystalline
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Clay-1%, Organics-<1%
Sediment Structures:Laminated
Other Features :
Sample Type :Core

326.3 326.6 Rock Type :Dolostone;pale yellowish brown_10YR 6/2_30
Porosity :Moldic,Pin Point Vugs,Intercrystalline
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Very Fine RANGE :Microcrystalline To Very Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :
Fossils:Fossil Molds, Mollusks, Miliolids, Benthic Foraminifera
General Fossils :Fossil Molds, Mollusks, Miliolids, Benthic Foraminifera
Sediment Structures:
Other Features :
Sample Type :Core

326.6 327 Rock Type :Dolostone; To pale yellowish brown_10YR 6/2_30
Porosity :Intercrystalline,Intergranular
Dolomite Properties:50-90% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :
Fossils:Fossil Molds
General Fossils :Fossil Molds
Sediment Structures:
Other Features :
Sample Type :Core

327 327.1 Rock Type :Dolostone;dark yellowish brown_10YR 4/2_31 To very pale orange_10YR 8/2_29
Porosity :Intercrystalline,Pin Point Vugs
Dolomite Properties:50-90% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Clay-2%, Organics-<1%
Sediment Structures:
Other Features :Muddy
Sample Type :Core

327.1 328.1 Rock Type :Dolostone;moderate yellowish brown_10YR

5/4_34 To pale yellowish brown_10YR 6/2_30
Porosity :Intercrystalline,Intergranular
Dolomite Properties:50-90% ALTERED;Subhedral GRAIN SIZE : Very Fine RANGE :Microcrystalline To Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :
Sediment Structures:Interbedded
Other Features :Low Recrystallization
Sample Type :Core

328.1 328.9 Rock Type :Dolostone;pale yellowish brown_10YR 6/2_30 To light olive gray_5Y 6/1_87
Porosity :Low Permeability,Pin Point Vugs
Dolomite Properties:90-100% ALTERED;Undetermined GRAIN SIZE : Microcrystalline RANGE :Cryptocrystalline To Microcrystalline
Induration:Good
Cement:Dolomite
Accessory Minerals :Organics-<1%, Pyrite-<1%
Sediment Structures:
Other Features :
Sample Type :Core

328.9 329.2 Rock Type :Dolostone;very pale orange_10YR 8/2_29 To yellowish gray_5Y 8/1_86
Porosity :Intercrystalline,Moldic
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Very Fine RANGE :Microcrystalline To Very Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :
Fossils:Fossil Molds, Mollusks, Miliolids
General Fossils :Fossil Molds, Mollusks, Miliolids
Sediment Structures:
Other Features :Weathered
Sample Type :Core

329.2 330 Rock Type :Dolostone;pale yellowish brown_10YR 6/2_30 To very pale orange_10YR 8/2_29
Porosity :Low Permeability,Intercrystalline
Dolomite Properties:90-100% ALTERED;Undetermined GRAIN SIZE : Microcrystalline RANGE :Cryptocrystalline To Microcrystalline
Induration:Good
Cement:Dolomite
Accessory Minerals :Clay-<1%
Sediment Structures:Laminated
Other Features :
Sample Type :Core

330 331.8 Rock Type :Dolostone;pale yellowish brown_10YR 6/2_30 To very pale orange_10YR 8/2_29
Porosity :Intercrystalline,Moldic,Low Permeability
Dolomite Properties:90-100% ALTERED;Undetermined GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :Organics-<1%
Fossils:Fossil Molds, Mollusks
General Fossils :Fossil Molds, Mollusks
Sediment Structures:
Other Features :
Sample Type :Core

331.8 333.3 Rock Type :Dolostone; To pale yellowish brown_10YR 6/2_30
Porosity :Moldic,Intercrystalline
Dolomite Properties:90-100% ALTERED;Undetermined GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-<1%
Fossils:Fossil Molds, Mollusks, Miliolids
General Fossils :Fossil Molds, Mollusks, Miliolids
Sediment Structures:
Other Features :
Sample Type :Core

333.3 335.7 Rock Type :Dolostone;very pale orange_10YR 8/2_29 To pale yellowish brown_10YR 6/2_30
Porosity :Pin Point Vugs,Intercrystalline
Dolomite Properties:90-100% ALTERED;Undetermined GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-<1%, Clay-1%
Fossils:Fossil Molds
General Fossils :Fossil Molds
Sediment Structures:Laminated
Other Features :
Sample Type :Core

335.7 338.3 Rock Type :Dolostone;pale yellowish brown_10YR 6/2_30
Porosity :Intercrystalline,Intergranular
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :
Fossils:Fossil Molds, Mollusks, Miliolids
General Fossils :Fossil Molds, Mollusks, Miliolids
Sediment Structures:
Other Features :
Sample Type :Core

338.3 338.5 Rock Type :Dolostone;pale yellowish brown_10YR 6/2_30
Porosity :Low Permeability
Dolomite Properties:90-100% ALTERED;Undetermined GRAIN SIZE : Microcrystalline RANGE :Cryptocrystalline To Microcrystalline
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-<1%, Silt-<1%
Sediment Structures:Laminated
Other Features :
Sample Type :Core

338.5 340.4 Rock Type :Dolostone;pale yellowish brown_10YR 6/2_30
Porosity :Moldic,Intercrystalline
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-<1%
Fossils:Fossil Molds, Mollusks, Miliolids, Plant

Remains
General Fossils :Fossil Molds, Mollusks, Miliolids,
Plant Remains
Sediment Structures:Bioturbated
Other Features :
Sample Type :Core

340.4 344 Rock Type :Dolostone;pale yellowish brown_10YR 6/2_30
Porosity :Intercrystalline,Moldic
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-<1%
Fossils:Fossil Molds, Mollusks, Miliolids
General Fossils :Fossil Molds, Mollusks, Miliolids
Sediment Structures:
Other Features :
Sample Type :Core

344 346.5 Rock Type :Dolostone;pale yellowish brown_10YR 6/2_30 To light olive gray_5Y 6/1_87
Porosity :Intercrystalline,Pin Point Vugs
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :
Fossils:Fossil Molds
General Fossils :Fossil Molds
Sediment Structures:
Other Features :
Sample Type :Core

346.5 350 Rock Type :Dolostone;pale yellowish brown_10YR 6/2_30
Porosity :Intercrystalline,Pin Point Vugs
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-1%
Fossils:Fossil Molds
General Fossils :Fossil Molds
Sediment Structures:
Other Features :
Sample Type :Core

350 352.5 Rock Type :Dolostone;very pale orange_10YR 8/2_29 To pale yellowish brown_10YR 6/2_30
Porosity :Pin Point Vugs,Intercrystalline
Dolomite Properties:50-90% ALTERED;Undetermined GRAIN SIZE : Microcrystalline RANGE :Cryptocrystalline To Very Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :Organics-<1%, Clay-<1%
Sediment Structures:Streaked, Bedded
Other Features :Calcareous
Sample Type :Core

352.5 352.7 Rock Type :Dolostone;dark yellowish brown_10YR 4/2_31 To dusky yellowish brown_10YR 2/2_32

Porosity :Intercrystalline
Dolomite Properties:50-90% ALTERED;Undetermined GRAIN SIZE : Microcrystalline RANGE :Cryptocrystalline To Very Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :Organics-30%
Sediment Structures:Banded
Other Features :Calcareous
Sample Type :Core

352.7 355.1 Rock Type :Dolostone;very pale orange_10YR 8/2_29 To pale yellowish brown_10YR 6/2_30
Porosity :Moldic,Intercrystalline
Dolomite Properties:50-90% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-1%
Fossils:Fossil Molds, Mollusks, Miliolids, Plant Remains, Benthic Foraminifera
General Fossils :Fossil Molds, Mollusks, Miliolids, Plant Remains, Benthic Foraminifera
Sediment Structures:Bioturbated
Other Features :Calcareous
Sample Type :Core

355.1 356.1 Rock Type :Dolostone; To pale yellowish brown_10YR 6/2_30
Porosity :Pin Point Vugs,Intercrystalline
Dolomite Properties:50-90% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-<1%, Silt-<1%
Fossils:Fossil Molds
General Fossils :Fossil Molds
Sediment Structures:Streaked, Banded
Other Features :Calcareous
Sample Type :Core

356.1 356.3 Rock Type :Dolostone;pale yellowish brown_10YR 6/2_30
Porosity :Low Permeability,Intercrystalline
Dolomite Properties:90-100% ALTERED;Undetermined GRAIN SIZE : Microcrystalline RANGE :Cryptocrystalline To Microcrystalline
Induration:Good
Cement:Dolomite
Accessory Minerals :
Sediment Structures:
Other Features :
Sample Type :Core

356.3 358.2 Rock Type :Dolostone;very pale orange_10YR 8/2_29 To dark yellowish brown_10YR 4/2_31
Porosity :Intercrystalline
Dolomite Properties:50-90% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-1%, Silt-<1%
Sediment Structures:
Other Features :Calcareous
Sample Type :Core

358.2 358.6 Rock Type :No Sample;
Porosity :
Cement:
Accessory Minerals :
Sediment Structures:
Other Features :
Sample Type :Core

358.6 361.5 Rock Type :Dolostone;pale yellowish brown_10YR 6/2_30 To very pale orange_10YR 8/2_29
Porosity :Vugular,Intercrystalline,Pin Point Vugs
Dolomite Properties:50-90% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-1%
Fossils:Fossil Molds, Plant Remains
General Fossils :Fossil Molds, Plant Remains
Sediment Structures:Bioturbated, Burrowed
Other Features :Calcareous
Sample Type :Core

361.5 364 Rock Type :Dolostone;pale yellowish brown_10YR 6/2_30 To very pale orange_10YR 8/2_29
Porosity :Moldic,Intercrystalline
Dolomite Properties:50-90% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-<1%
Fossils:Fossil Molds, Mollusks, Algae, Plant Remains
General Fossils :Fossil Molds, Mollusks, Algae, Plant Remains
Sediment Structures:Bioturbated, Streaked, Interbedded
Other Features :Calcareous
Sample Type :Core

364 364.2 Rock Type :Dolostone; To pale yellowish brown_10YR 6/2_30
Porosity :Low Permeability,Fracture
Dolomite Properties:90-100% ALTERED;Undetermined GRAIN SIZE : Microcrystalline RANGE :Cryptocrystalline To Microcrystalline
Induration:Good
Cement:Dolomite
Accessory Minerals :
Sediment Structures:
Other Features :
Sample Type :Core

364.2 368.4 Rock Type :Dolostone;very pale orange_10YR 8/2_29 To pale yellowish brown_10YR 6/2_30
Porosity :Moldic,Pin Point Vugs,Intercrystalline
Dolomite Properties:50-90% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-<1%
Fossils:Fossil Molds, Mollusks, Miliolids, Benthic Foraminifera, Plant Remains
General Fossils :Fossil Molds, Mollusks, Miliolids, Benthic Foraminifera, Plant Remains

Sediment Structures:Bioturbated
Other Features :
Sample Type :Core

368.4 369.5 Rock Type :Dolostone;very pale orange_10YR 8/2_29 To medium gray_N5_80
Porosity :Fracture,Pin Point Vugs
Dolomite Properties:50-90% ALTERED;Subhedral GRAIN SIZE : Very Fine RANGE :Microcrystalline To Very Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-<1%
Fossils:Fossil Molds
General Fossils :Fossil Molds
Sediment Structures:Streaked
Other Features :
Sample Type :Core

369.5 370.9 Rock Type :Dolostone;pale yellowish brown_10YR 6/2_30 To medium light gray_N6_79
Porosity :Moldic
Dolomite Properties:90-100% ALTERED;Undetermined GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :Pyrite-<1%
Fossils:Fossil Molds, Mollusks, Coral
General Fossils :Fossil Molds, Mollusks, Coral
Sediment Structures:Bioturbated, Burrowed
Other Features :Variegated
Sample Type :Core

370.9 372.5 Rock Type :Dolostone;very pale orange_10YR 8/2_29 To medium light gray_N6_79
Porosity :Pin Point Vugs,Intercrystalline
Dolomite Properties:50-90% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :
Fossils:Fossil Molds
General Fossils :Fossil Molds
Sediment Structures:Mottled
Other Features :
Sample Type :Core

372.5 373.5 Rock Type :Dolostone;very pale orange_10YR 8/2_29 To medium gray_N5_80
Porosity :Moldic,Intercrystalline
Dolomite Properties:50-90% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Cryptocrystalline To Very Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :
Fossils:Fossil Molds
General Fossils :Fossil Molds
Sediment Structures:Bioturbated
Other Features :Variegated
Sample Type :Core

373.5 376 Rock Type :Dolostone; To medium light gray_N6_79
Porosity :Pin Point Vugs,Intercrystalline
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN

SIZE : Very Fine RANGE :Microcrystalline To Very Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-<1%, Silt-<1%
Fossils:Fossil Molds
General Fossils :Fossil Molds
Sediment Structures:Streaked, Laminated
Other Features :
Sample Type :Core

376 378.3 Rock Type :Dolostone;pale yellowish brown_10YR 6/2_30
Porosity :Moldic,Pin Point Vugs,Intercrystalline
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-1%
Fossils:Fossil Molds, Mollusks, Miliolids
General Fossils :Fossil Molds, Mollusks, Miliolids
Sediment Structures:
Other Features :
Sample Type :Core

378.3 382 Rock Type :Dolostone;pale yellowish brown_10YR 6/2_30 To very pale orange_10YR 8/2_29
Porosity :Intercrystalline,Pin Point Vugs
Dolomite Properties:50-90% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-<1%
Fossils:Fossil Molds, Mollusks
General Fossils :Fossil Molds, Mollusks
Sediment Structures:
Other Features :
Sample Type :Core

382 382.3 Rock Type :No Sample;
Porosity :
Cement:
Accessory Minerals :
Sediment Structures:
Other Features :
Sample Type :Core

382.3 387.3 Rock Type :Dolostone;very pale orange_10YR 8/2_29 To pale yellowish brown_10YR 6/2_30
Porosity :Moldic,Intercrystalline
Dolomite Properties:50-90% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-2%
Fossils:Fossil Molds, Mollusks, Miliolids, Gastropods, Plant Remains
General Fossils :Fossil Molds, Mollusks, Miliolids, Gastropods, Plant Remains
Sediment Structures:Streaked, Laminated, Interbedded
Other Features :Calcareous
Sample Type :Core

387.3 393 Rock Type :Dolostone;very pale orange_10YR 8/2_29 To

pale yellowish brown_10YR 6/2_30
Porosity :Moldic,Intercrystalline
Dolomite Properties:50-90% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-2%
Fossils:Fossil Molds, Mollusks, Miliolids, Gastropods, Plant Remains
General Fossils :Fossil Molds, Mollusks, Miliolids, Gastropods, Plant Remains
Sediment Structures:Streaked, Laminated, Interbedded
Other Features :Calcareous
Sample Type :Core

393 395.2 Rock Type :Dolostone;pale yellowish brown_10YR 6/2_30 To very pale orange_10YR 8/2_29
Porosity :Intercrystalline,Pin Point Vugs
Dolomite Properties:50-90% ALTERED;Undetermined GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-<1%
Fossils:Fossil Molds
General Fossils :Fossil Molds
Sediment Structures:
Other Features :Calcareous
Sample Type :Core

395.2 395.6 Rock Type :Clay;dark yellowish brown_10YR 4/2_31 To pale yellowish brown_10YR 6/2_30
Porosity :Low Permeability,Intercrystalline
Induration:Poor
Cement:Clay Matrix, Dolomite
Accessory Minerals :Dolomite-35%, Peat-15%
Sediment Structures:Laminated
Other Features :
Sample Type :Core

395.6 396.5 Rock Type :Dolostone;very pale orange_10YR 8/2_29 To pale yellowish brown_10YR 6/2_30
Porosity :Fracture,Pin Point Vugs
Dolomite Properties:50-90% ALTERED;Undetermined GRAIN SIZE : Microcrystalline RANGE :Cryptocrystalline To Very Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :
Sediment Structures:
Other Features :Calcareous
Sample Type :Core

396.5 397.2 Rock Type :Dolostone;pale yellowish brown_10YR 6/2_30 To very pale orange_10YR 8/2_29
Porosity :Intercrystalline
Dolomite Properties:50-90% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-2%, Clay-2%, Quartz-<1%
Sediment Structures:Streaked, Laminated
Other Features :Calcareous, Variegated
Sample Type :Core

397.2 398.3 Rock Type :Dolostone;pale yellowish brown_10YR 6/2_30 To very pale orange_10YR 8/2_29
Porosity :Pin Point Vugs,Moldic
Dolomite Properties:90-100% ALTERED;Undetermined GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :Organics-1%
Fossils:Fossil Molds
General Fossils :Fossil Molds
Sediment Structures:Streaked, Bedded
Other Features :
Sample Type :Core

398.3 398.6 Rock Type :Peat;black_N1_83 To very pale orange_10YR 8/2_29
Porosity :Intercrystalline
Induration:Poor
Cement:Organic Matrix, Dolomite
Accessory Minerals :Silt Size Dolomite-25%, Clay-7%, Gypsum-2%
Sediment Structures:Streaked
Other Features :
Sample Type :Core

398.6 399.3 Rock Type :Dolostone;dark yellowish brown_10YR 4/2_31 To very pale orange_10YR 8/2_29
Porosity :Low Permeability,Fracture
Dolomite Properties:90-100% ALTERED;Undetermined GRAIN SIZE : Microcrystalline RANGE :Cryptocrystalline To Very Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :Quartz-<1%
Sediment Structures:
Other Features :
Sample Type :Core

399.3 399.9 Rock Type :Dolostone;pale yellowish brown_10YR 6/2_30 To dark yellowish brown_10YR 4/2_31
Porosity :Intercrystalline,Fracture
Dolomite Properties:50-90% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Cryptocrystalline To Very Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :Quartz-<1%
Sediment Structures:
Other Features :Variegated
Sample Type :Core

399.9 400.5 Rock Type :Dolostone;dark yellowish brown_10YR 4/2_31 To pale yellowish brown_10YR 6/2_30
Porosity :Intercrystalline
Dolomite Properties:90-100% ALTERED;Undetermined GRAIN SIZE : Microcrystalline RANGE :Cryptocrystalline To Very Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :Quartz-<1%, Clay-2%, Organics-1%
Sediment Structures:
Other Features :
Sample Type :Core

400.5 402.9 Rock Type :Dolostone;dark yellowish brown_10YR 4/2_31 To moderate yellowish brown_10YR 5/4_34

Porosity :Vugular,Intercrystalline
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Very Fine RANGE :Microcrystalline To Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :
Fossils:Fossil Molds
General Fossils :Fossil Molds
Sediment Structures:
Other Features :Low Recrystallization, Variegated
Sample Type :Core

402.9 403.2 Rock Type :Dolostone;pale yellowish brown_10YR 6/2_30 To medium gray_N5_80
Porosity :Low Permeability,Intercrystalline
Dolomite Properties:90-100% ALTERED;Undetermined GRAIN SIZE : Microcrystalline RANGE :Cryptocrystalline To Very Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :
Sediment Structures:
Other Features :Variegated
Sample Type :Core

403.2 405.5 Rock Type :Dolostone;very pale orange_10YR 8/2_29 To pale yellowish brown_10YR 6/2_30
Porosity :Moldic,Pin Point Vugs
Dolomite Properties:50-90% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :Pyrite-<1%
Fossils:Fossil Molds
General Fossils :Fossil Molds
Sediment Structures:Bioturbated, Burrowed
Other Features :
Sample Type :Core

405.5 407.9 Rock Type :Limestone;very pale orange_10YR 8/2_29 To medium light gray_N6_79
Porosity :Intergranular,Intercrystalline
LimeStone Properties:GRAIN TYPE : Crystals,Skeletal , Biogenic GRAIN SIZE :Very Coarse
Induration:Moderate
Cement:Sparry Calcite, Dolomite
Accessory Minerals :Dolomite-20%
Fossils:Fossil Fragments
General Fossils :Fossil Fragments
Sediment Structures:Interbedded
Other Features :Medium Recrystallization, Dolomitic
Sample Type :Core

407.9 408.9 Rock Type :Dolostone;pale yellowish brown_10YR 6/2_30 To medium light gray_N6_79
Porosity :Pin Point Vugs,Moldic
Dolomite Properties:50-90% ALTERED;Undetermined GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :Pyrite-<1%
Fossils:Fossil Molds, Gastropods, Coral, Mollusks
General Fossils :Fossil Molds, Gastropods, Coral, Mollusks

Sediment Structures:Bioturbated
Other Features :
Sample Type :Core

408.9 411.6 Rock Type :Dolostone;moderate yellowish brown_10YR 5/4_34 To pale yellowish brown_10YR 6/2_30
Porosity :Intercrystalline,Pin Point Vugs
Dolomite Properties:50-90% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Clay-<1%
Sediment Structures:Streaked
Other Features :
Sample Type :Core

411.6 412 Rock Type :Dolostone;pale yellowish brown_10YR 6/2_30
Porosity :Moldic,Pin Point Vugs
Dolomite Properties:90-100% ALTERED;Undetermined GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :Pyrite-<1%
Fossils:Fossil Molds
General Fossils :Fossil Molds
Sediment Structures:Bioturbated, Burrowed
Other Features :
Sample Type :Core

412 412.7 Rock Type :Dolostone;pale yellowish brown_10YR 6/2_30 To very pale orange_10YR 8/2_29
Porosity :Pin Point Vugs,Vugular
Dolomite Properties:50-90% ALTERED;Undetermined GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :Pyrite-<1%
Fossils:Fossil Molds, Mollusks
General Fossils :Fossil Molds, Mollusks
Sediment Structures:
Other Features :Calcareous
Sample Type :Core

412.7 414.6 Rock Type :Dolostone; To pale yellowish brown_10YR 6/2_30
Porosity :Intercrystalline
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Pyrite-<1%
Sediment Structures:
Other Features :
Sample Type :Core

414.6 415.5 Rock Type :Dolostone;pale yellowish brown_10YR 6/2_30 To very pale orange_10YR 8/2_29
Porosity :Possibly High Permeability,Moldic
Dolomite Properties:50-90% ALTERED;Undetermined GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Moderate
Cement:Dolomite

Accessory Minerals :Pyrite-<1%, Clay-1%
Fossils:Fossil Molds
General Fossils :Fossil Molds
Sediment Structures:
Other Features :Calcareous
Sample Type :Core

415.5 417 Rock Type :Dolostone; To moderate yellowish brown_10YR 5/4_34
Porosity :Intercrystalline,Intergranular
Dolomite Properties:90-100% ALTERED;Undetermined GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Pyrite-<1%
Sediment Structures:
Other Features :
Sample Type :Core

417 418.1 Rock Type :Dolostone; To pale yellowish brown_10YR 6/2_30
Porosity :Moldic,Intercrystalline,Intergranular
Dolomite Properties:90-100% ALTERED;Undetermined GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Pyrite-<1%
Fossils:Fossil Molds, Mollusks, Miliolids, Benthic Foraminifera
General Fossils :Fossil Molds, Mollusks, Miliolids, Benthic Foraminifera
Sediment Structures:
Other Features :
Sample Type :Core

418.1 420.2 Rock Type :Dolostone;pale yellowish brown_10YR 6/2_30 To very pale orange_10YR 8/2_29
Porosity :Intercrystalline,Pin Point Vugs
Dolomite Properties:50-90% ALTERED;Undetermined GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Pyrite-<1%, Clay-1%, Organics-<1%
Sediment Structures:Streaked, Laminated
Other Features :Calcareous
Sample Type :Core

420.2 421.1 Rock Type :Dolostone; To pale yellowish brown_10YR 6/2_30
Porosity :Pin Point Vugs,Intercrystalline
Dolomite Properties:50-90% ALTERED;Subhedral GRAIN SIZE : Very Fine RANGE :Microcrystalline To Very Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Pyrite-<1%
Fossils:Fossil Molds, Algae, Miliolids
General Fossils :Fossil Molds, Algae, Miliolids
Sediment Structures:
Other Features :
Sample Type :Core

421.1 422.5 Rock Type :Dolostone;very pale orange_10YR 8/2_29 To

pale yellowish brown_10YR 6/2_30
Porosity :Pin Point Vugs,Moldic
Dolomite Properties:50-90% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :Pyrite-<1%, Organics-<1%
Fossils:Fossil Molds, Algae, Benthic Foraminifera, Gastropods, Miliolids
General Fossils :Fossil Molds, Algae, Benthic Foraminifera, Gastropods, Miliolids
Sediment Structures:Streaked
Other Features :Calcareous
Sample Type :Core

422.5 423.2 Rock Type :Dolostone;pale yellowish brown_10YR 6/2_30 To dark yellowish brown_10YR 4/2_31
Porosity :Intercrystalline
Dolomite Properties:50-90% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-1%, Clay-1%
Fossils:Fossil Molds
General Fossils :Fossil Molds
Sediment Structures:Streaked, Laminated
Other Features :
Sample Type :Core

423.2 424.8 Rock Type :Dolostone; To pale yellowish brown_10YR 6/2_30
Porosity :Intercrystalline,Moldic,Intergranular
Dolomite Properties:50-90% ALTERED;Undetermined GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :
Fossils:Fossil Molds, Mollusks
General Fossils :Fossil Molds, Mollusks
Sediment Structures:Streaked
Other Features :
Sample Type :Core

424.8 425.2 Rock Type :Dolostone;pale yellowish brown_10YR 6/2_30 To very pale orange_10YR 8/2_29
Porosity :Intercrystalline,Pin Point Vugs
Dolomite Properties:50-90% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-2%, Quartz-2%, Clay-1%
Sediment Structures:Streaked
Other Features :Calcareous
Sample Type :Core

425.2 426.3 Rock Type :Dolostone; To pale yellowish brown_10YR 6/2_30
Porosity :Pin Point Vugs,Moldic,Possibly High Permeability
Dolomite Properties:50-90% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Moderate
Cement:Dolomite

Accessory Minerals :Clay-<1%
Fossils:Fossil Molds
General Fossils :Fossil Molds
Sediment Structures:Streaked
Other Features :
Sample Type :Core

426.3 428.2 Rock Type :Dolostone;very pale orange_10YR 8/2_29
Porosity :Intercrystalline
Dolomite Properties:50-90% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-<1%
Sediment Structures:
Other Features :Calcareous
Sample Type :Core

428.2 428.6 Rock Type :Dolostone;very pale orange_10YR 8/2_29
Porosity :Intercrystalline,Vugular
Dolomite Properties:50-90% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :
Sediment Structures:Streaked
Other Features :Calcareous
Sample Type :Core

428.6 429.9 Rock Type :Dolostone;very pale orange_10YR 8/2_29 To pale yellowish brown_10YR 6/2_30
Porosity :Intercrystalline,Pin Point Vugs
Dolomite Properties:50-90% ALTERED;Undetermined GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :
Fossils:Fossil Molds, Gastropods
General Fossils :Fossil Molds, Gastropods
Sediment Structures:
Other Features :Calcareous
Sample Type :Core

429.9 432 Rock Type :Dolostone;very pale orange_10YR 8/2_29 To pale yellowish brown_10YR 6/2_30
Porosity :Intercrystalline
Dolomite Properties:50-90% ALTERED;Undetermined GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-1%
Sediment Structures:
Other Features :Calcareous
Sample Type :Core

432 432.5 Rock Type :No Sample;
Porosity :
Cement:
Accessory Minerals :
Sediment Structures:
Other Features :
Sample Type :Core

432.5	433.6	Rock Type :Dolostone;very pale orange_10YR 8/2_29 To pale yellowish brown_10YR 6/2_30 Porosity :Pin Point Vugs,Moldic Dolomite Properties:50-90% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine Induration:Moderate Cement:Dolomite Accessory Minerals :Pyrite-<1% Fossils:Fossil Molds, Mollusks, Gastropods, Algae General Fossils :Fossil Molds, Mollusks, Gastropods, Algae Sediment Structures: Other Features :Calcareous Sample Type :Core
433.6	437.6	Rock Type :Dolostone;pale yellowish brown_10YR 6/2_30 To very pale orange_10YR 8/2_29 Porosity :Intercrystalline,Pin Point Vugs Dolomite Properties:50-90% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Microcrystalline Induration:Moderate Cement:Dolomite Accessory Minerals :Organics-<1%, Clay-<1% Fossils:Fossil Molds, Mollusks General Fossils :Fossil Molds, Mollusks Sediment Structures:Streaked, Laminated, Bedded Other Features :Calcareous Sample Type :Core
437.6	439.5	Rock Type :Dolostone;pale yellowish brown_10YR 6/2_30 To very pale orange_10YR 8/2_29 Porosity :Intercrystalline,Moldic Dolomite Properties:50-90% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Microcrystalline Induration:Moderate Cement:Dolomite Accessory Minerals : Fossils:Fossil Molds, Mollusks General Fossils :Fossil Molds, Mollusks Sediment Structures: Other Features :Calcareous, Weathered Sample Type :Core
439.5	440	Rock Type :Dolostone;pale yellowish brown_10YR 6/2_30 To very pale orange_10YR 8/2_29 Porosity :Moldic Dolomite Properties:50-90% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Microcrystalline Induration:Moderate Cement:Dolomite Accessory Minerals :Organics-<1% Fossils:Fossil Molds, Mollusks, Miliolids, Coral, Gastropods General Fossils :Fossil Molds, Mollusks, Miliolids, Coral, Gastropods Sediment Structures: Other Features :Calcareous Sample Type :Core
440	440.5	Rock Type :No Sample;pale yellowish brown_10YR 6/2_30 To very pale orange_10YR 8/2_29 Porosity :Moldic Dolomite Properties:50-90% ALTERED;Subhedral GRAIN

SIZE : Microcrystalline RANGE :Microcrystalline To Microcrystalline
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-<1%
Fossils:Fossil Molds, Mollusks, Miliolids, Coral, Gastropods
General Fossils :Fossil Molds, Mollusks, Miliolids, Coral, Gastropods
Sediment Structures:
Other Features :Calcareous
Sample Type :Core

440.5 441.5 Rock Type :Dolostone;very pale orange_10YR 8/2_29 To pale yellowish brown_10YR 6/2_30
Porosity :Moldic,Intercrystalline,Pin Point Vugs
Dolomite Properties:50-90% ALTERED;Subhedral GRAIN
SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :
Fossils:Fossil Molds, Mollusks, Cones
General Fossils :Fossil Molds, Mollusks, Cones
Sediment Structures:Bioturbated, Burrowed
Other Features :Calcareous
Sample Type :Core

441.5 446.5 Rock Type :Dolostone; To pale yellowish brown_10YR 6/2_30
Porosity :Intercrystalline,Pin Point Vugs
Dolomite Properties:50-90% ALTERED;Subhedral GRAIN
SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-<1%
Fossils:Fossil Molds, Mollusks
General Fossils :Fossil Molds, Mollusks
Sediment Structures:Bedded
Other Features :
Sample Type :Core

446.5 449.6 Rock Type :Dolostone; To pale yellowish brown_10YR 6/2_30
Porosity :Intercrystalline,Pin Point Vugs
Dolomite Properties:50-90% ALTERED;Subhedral GRAIN
SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-<1%
Fossils:Fossil Molds, Mollusks
General Fossils :Fossil Molds, Mollusks
Sediment Structures:Bedded
Other Features :
Sample Type :Core

449.6 451.6 Rock Type :Dolostone;pale yellowish brown_10YR 6/2_30
Porosity :Moldic,Pin Point Vugs,Vugular
Dolomite Properties:50-90% ALTERED;Subhedral GRAIN
SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :Organics-<1%
Fossils:Fossil Molds, Mollusks, Gastropods, Coral

General Fossils :Fossil Molds, Mollusks, Gastropods, Coral
Sediment Structures:
Other Features :
Sample Type :Core

451.6 454.5 Rock Type :Dolostone; To pale yellowish brown_10YR 6/2_30
Porosity :Intercrystalline,Intergranular,Pin Point Vugs
Dolomite Properties:50-90% ALTERED;Anhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-<1%
Fossils:Fossil Molds
General Fossils :Fossil Molds
Sediment Structures:Streaked
Other Features :
Sample Type :Core

454.5 455.6 Rock Type :Dolostone;medium light gray_N6_79
Porosity :Moldic,Pin Point Vugs,Possibly High Permeability
Dolomite Properties:50-90% ALTERED;Anhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :Organics-<1%, Silt-<1%
Fossils:Fossil Molds
General Fossils :Fossil Molds
Sediment Structures:Burrowed, Bioturbated
Other Features :Variegated
Sample Type :Core

455.6 457 Rock Type :Dolostone; To pale yellowish brown_10YR 6/2_30
Porosity :Moldic,Pin Point Vugs
Dolomite Properties:50-90% ALTERED;Anhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :
Fossils:Fossil Molds, Mollusks, Gastropods, Miliolids
General Fossils :Fossil Molds, Mollusks, Gastropods, Miliolids
Sediment Structures:
Other Features :Calcareous
Sample Type :Core

457 457.9 Rock Type :Dolostone; To pale yellowish brown_10YR 6/2_30
Porosity :Intercrystalline
Dolomite Properties:50-90% ALTERED;Anhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-<1%, Silt-<1%
Sediment Structures:Streaked
Other Features :Calcareous
Sample Type :Core

457.9 458.7 Rock Type :Dolostone;very pale orange_10YR 8/2_29 To medium light gray_N6_79
Porosity :Moldic,Pin Point Vugs
Dolomite Properties:50-90% ALTERED;Undetermined GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Microcrystalline
Induration:Good
Cement:Dolomite
Accessory Minerals :Organics-<1%
Fossils:Fossil Molds
General Fossils :Fossil Molds
Sediment Structures:Bioturbated, Burrowed
Other Features :Calcareous
Sample Type :Core

458.7 460 Rock Type :Dolostone;pale yellowish brown_10YR 6/2_30 To very pale orange_10YR 8/2_29
Porosity :Moldic,Pin Point Vugs,Intercrystalline
Dolomite Properties:50-90% ALTERED;Anhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :
Fossils:Fossil Molds, Mollusks, Gastropods
General Fossils :Fossil Molds, Mollusks, Gastropods
Sediment Structures:
Other Features :Calcareous, Weathered
Sample Type :Core

460 462 Rock Type :Limestone;very pale orange_10YR 8/2_29 To medium light gray_N6_79
Porosity :Intragranular,Intercrystalline
LimeStone Properties:GRAIN TYPE : Crystals,Skeletal Cast , Biogenic GRAIN SIZE :Fine
Induration:Moderate
Cement:Sparry Calcite
Accessory Minerals :
Fossils:Fossil Fragments, Benthic Foraminifera, Miliolids
General Fossils :Fossil Fragments, Benthic Foraminifera, Miliolids
Sediment Structures:Mottled
Other Features :Dolomitic, Weathered, Medium Recrystallization
Sample Type :Core

462 463.6 Rock Type :Dolostone; To medium gray_N5_80
Porosity :Moldic,Vugular,Pin Point Vugs
Dolomite Properties:50-90% ALTERED;Undetermined GRAIN SIZE : Microcrystalline RANGE :Cryptocrystalline To Very Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :
Fossils:Fossil Molds, Echinoid, Benthic Foraminifera
General Fossils :Fossil Molds, Echinoid, Benthic Foraminifera
Sediment Structures:Mottled
Index Fossils :Cushmania (Dictyoconus) americana (Avon Park Fm.)
Other Features :Calcareous
Sample Type :Core

463.6 466.6 Rock Type :Dolostone;medium gray_N5_80

Porosity :Moldic
Dolomite Properties:90-100% ALTERED;Anhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :
Fossils:Fossil Molds, Benthic Foraminifera, Miliolids
General Fossils :Fossil Molds, Benthic Foraminifera, Miliolids
Sediment Structures:
Other Features :
Sample Type :Core

466.6 467.4 Rock Type :Dolostone;medium gray_N5_80 To pale yellowish brown_10YR 6/2_30
Porosity :Vugular
Dolomite Properties:90-100% ALTERED;Anhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :
Sediment Structures:
Other Features :Weathered
Sample Type :Core

467.4 470.3 Rock Type :Dolostone;medium light gray_N6_79 To medium dark gray_N4_81
Porosity :Moldic
Dolomite Properties:90-100% ALTERED;Undetermined GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :
Fossils:Fossil Molds, Mollusks, Miliolids, Gastropods
General Fossils :Fossil Molds, Mollusks, Miliolids, Gastropods
Sediment Structures:Bioturbated
Other Features :Fossilferous
Sample Type :Core

470.3 471.1 Rock Type :Dolostone;yellowish gray_5Y 8/1_86 To very pale orange_10YR 8/2_29
Porosity :Intercrystalline
Dolomite Properties:90-100% ALTERED;Undetermined GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Clay-10%
Sediment Structures:Banded
Other Features :
Sample Type :Core

471.1 471.7 Rock Type :Dolostone;pale yellowish brown_10YR 6/2_30
Porosity :Moldic,Pin Point Vugs,Intercrystalline
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :
Fossils:Fossil Molds, Miliolids, Benthic

Foraminifera
General Fossils :Fossil Molds, Miliolids, Benthic Foraminifera
Sediment Structures:
Other Features :
Sample Type :Core

471.7 472 Rock Type :No Sample;
Porosity :
Cement:
Accessory Minerals :
Sediment Structures:
Other Features :
Sample Type :Core

472 472.5 Rock Type :Dolostone;pale yellowish brown_10YR 6/2_30
Porosity :Moldic,Intergranular,Intercrystalline
Dolomite Properties:90-100% ALTERED;Anhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-3%
Fossils:Fossil Molds, Miliolids
General Fossils :Fossil Molds, Miliolids
Sediment Structures:
Other Features :Weathered
Sample Type :Core

472.5 472.9 Rock Type :Peat;black_N1_83 To pale yellowish brown_10YR 6/2_30
Porosity :Intergranular
Induration:Poor
Cement:Organic Matrix
Accessory Minerals :Dolomite-5%
Sediment Structures:
Other Features :Partings
Sample Type :Core

472.9 474.9 Rock Type :Dolostone;dark yellowish brown_10YR 4/2_31 To moderate yellowish brown_10YR 5/4_34
Porosity :Moldic,Intercrystalline
Dolomite Properties:90-100% ALTERED;Anhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-10%, Clay-3%
Fossils:Fossil Molds, Miliolids
General Fossils :Fossil Molds, Miliolids
Sediment Structures:
Other Features :
Sample Type :Core

474.9 476.5 Rock Type :Peat;black_N1_83
Porosity :Intergranular
Induration:Poor
Cement:Organic Matrix
Accessory Minerals :Dolomite-7%
Sediment Structures:
Other Features :Partings
Sample Type :Core

476.5 478 Rock Type :Dolostone;pale yellowish brown_10YR

6/2_30 To moderate yellowish brown_10YR 5/4_34
Porosity :Moldic,Intercrystalline
Dolomite Properties:90-100% ALTERED;Undetermined
GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :Organics-3%, Clay-2%
Fossils:Fossil Molds, Miliolids
General Fossils :Fossil Molds, Miliolids
Sediment Structures:Bedded
Other Features :Slicken-sides
Sample Type :Core

478 478.9 Rock Type :Dolostone;moderate yellowish brown_10YR 5/4_34
Porosity :Moldic,Intercrystalline,Pin Point Vugs
Dolomite Properties:50-90% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :Organics-<1%
Fossils:Fossil Molds, Benthic Foraminifera, Cones, Gastropods
General Fossils :Fossil Molds, Benthic Foraminifera, Cones, Gastropods
Sediment Structures:
Other Features :
Sample Type :Core

478.9 479.5 Rock Type :Dolostone;dark yellowish brown_10YR 4/2_31 To dusky yellowish brown_10YR 2/2_32
Porosity :Intercrystalline,Low Permeability
Dolomite Properties:90-100% ALTERED;Undetermined
GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Microcrystalline
Induration:Moderate
Cement:Dolomite, Clay Matrix
Accessory Minerals :Organics-3%, Clay-5%
Sediment Structures:Streaked, Bioturbated
Other Features :Muddy
Sample Type :Core

479.5 480.8 Rock Type :Dolostone;moderate yellowish brown_10YR 5/4_34 To pale yellowish brown_10YR 6/2_30
Porosity :Pin Point Vugs,Moldic
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :Organics-2%
Fossils:Fossil Molds, Benthic Foraminifera, Cones, Mollusks
General Fossils :Fossil Molds, Benthic Foraminifera, Cones, Mollusks
Sediment Structures:Bioturbated
Index Fossils :Cushmania (Dictyoconus) americana (Avon Park Fm.)
Other Features :
Sample Type :Core

480.8 481.1 Rock Type :Dolostone;moderate yellowish brown_10YR 5/4_34 To dark yellowish brown_10YR 4/2_31
Porosity :Intercrystalline,Low Permeability

Dolomite Properties:50-90% ALTERED;Undetermined
GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Microcrystalline
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-5%, Quartz-<1%
Sediment Structures:Bioturbated, Burrowed, Streaked
Other Features :Calcareous
Sample Type :Core

481.1 482.4 Rock Type :Dolostone;moderate yellowish brown_10YR 5/4_34
Porosity :Moldic,Pin Point Vugs,Intercrystalline
Dolomite Properties:90-100% ALTERED;Undetermined
GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :Organics-2%
Fossils:Fossil Molds, Gastropods
General Fossils :Fossil Molds, Gastropods
Sediment Structures:Bioturbated, Burrowed
Other Features :
Sample Type :Core

482.4 482.6 Rock Type :Dolostone;moderate yellowish brown_10YR 5/4_34 To dark yellowish brown_10YR 4/2_31
Porosity :Intercrystalline,Low Permeability
Dolomite Properties:50-90% ALTERED;Undetermined
GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Microcrystalline
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-5%
Sediment Structures:Streaked
Other Features :Calcareous
Sample Type :Core

482.6 483.5 Rock Type :Dolostone;moderate yellowish brown_10YR 5/4_34
Porosity :Moldic,Intercrystalline
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :Organics-<1%
Fossils:Fossil Molds, Benthic Foraminifera, Cones
General Fossils :Fossil Molds, Benthic Foraminifera, Cones
Sediment Structures:
Other Features :
Sample Type :Core

483.5 484 Rock Type :Dolostone;moderate yellowish brown_10YR 5/4_34 To dark yellowish orange_10YR 6/6_36
Porosity :Moldic,Intercrystalline,Pin Point Vugs
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Very Fine RANGE :Microcrystalline To Very Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-3%
Fossils:Fossil Molds, Benthic Foraminifera
General Fossils :Fossil Molds, Benthic Foraminifera
Sediment Structures:Streaked, Laminated
Other Features :
Sample Type :Core

484 484.5 Rock Type :Dolostone;moderate yellowish brown_10YR 5/4_34
Porosity :Moldic,Pin Point Vugs,Intercrystalline
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Very Fine RANGE :Microcrystalline To Very Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-1%
Fossils:Fossil Molds, Benthic Foraminifera, Mollusks
General Fossils :Fossil Molds, Benthic Foraminifera, Mollusks
Sediment Structures:
Other Features :
Sample Type :Core

484.5 487.4 Rock Type :Dolostone;pale yellowish brown_10YR 6/2_30
Porosity :Moldic,Intercrystalline
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :Organics-1%, Clay-2%
Fossils:Fossil Molds, Benthic Foraminifera, Mollusks, Miliolids, Gastropods
General Fossils :Fossil Molds, Benthic Foraminifera, Mollusks, Miliolids, Gastropods
Sediment Structures:
Index Fossils :Cushmania (Dictyoconus) americana (Avon Park Fm.)

Other Features :
Sample Type :Core

487.4 488 Rock Type :Dolostone;pale yellowish brown_10YR 6/2_30
Porosity :Pin Point Vugs,Intercrystalline
Dolomite Properties:50-90% ALTERED;Undetermined GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-5%
Sediment Structures:Streaked
Other Features :Calcareous
Sample Type :Core

488 490.4 Rock Type :Dolostone;moderate yellowish brown_10YR 5/4_34 To pale yellowish brown_10YR 6/2_30
Porosity :Moldic,Pin Point Vugs,Intercrystalline
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :Organics-1%
Fossils:Fossil Molds, Benthic Foraminifera, Mollusks, Miliolids, Gastropods
General Fossils :Fossil Molds, Benthic Foraminifera, Mollusks, Miliolids, Gastropods
Sediment Structures:Bioturbated, Burrowed
Index Fossils :Cushmania (Dictyoconus) americana (Avon Park Fm.)

Other Features :Fossilferous
Sample Type :Core

490.4 492 Rock Type :Dolostone; To pale yellowish brown_10YR 6/2_30
Porosity :Intercrystalline
Dolomite Properties:50-90% ALTERED;Subhedral GRAIN SIZE : Very Fine RANGE :Microcrystalline To Very Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-2%, Clay-1%
Sediment Structures:Streaked
Other Features :
Sample Type :Core

492 492.5 Rock Type :Dolostone;pale yellowish brown_10YR 6/2_30 To moderate yellowish brown_10YR 5/4_34
Porosity :Moldic,Pin Point Vugs
Dolomite Properties:50-90% ALTERED;Anhedral GRAIN SIZE : Microcrystalline RANGE :Cryptocrystalline To Microcrystalline
Induration:Good
Cement:Dolomite
Accessory Minerals :
Fossils:Fossil Molds, Benthic Foraminifera, Miliolids
General Fossils :Fossil Molds, Benthic Foraminifera, Miliolids
Sediment Structures:Bioturbated, Burrowed
Other Features :Calcareous
Sample Type :Core

492.5 493.3 Rock Type :Dolostone;moderate yellowish brown_10YR 5/4_34
Porosity :Moldic,Pin Point Vugs,Intercrystalline
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :Organics-<1%
Fossils:Fossil Molds, Benthic Foraminifera, Miliolids, Gastropods
General Fossils :Fossil Molds, Benthic Foraminifera, Miliolids, Gastropods
Sediment Structures:
Index Fossils :Cushmania (Dictyoconus) americana (Avon Park Fm.)

Other Features :
Sample Type :Core

493.3 493.6 Rock Type :Dolostone; To pale yellowish brown_10YR 6/2_30
Porosity :Intercrystalline
Dolomite Properties:50-90% ALTERED;Subhedral GRAIN SIZE : Very Fine RANGE :Microcrystalline To Very Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-2%, Clay-1%
Sediment Structures:Streaked
Other Features :
Sample Type :Core

493.6 495.2 Rock Type :Dolostone;moderate yellowish brown_10YR

5/4_34
Porosity :Moldic,Pin Point Vugs,Intercrystalline
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :Organics-<1%
Fossils:Fossil Molds, Benthic Foraminifera, Miliolids, Gastropods
General Fossils :Fossil Molds, Benthic Foraminifera, Miliolids, Gastropods
Sediment Structures:
Index Fossils :Cushmania (Dictyoconus) americana (Avon Park Fm.)

Other Features :
Sample Type :Core

495.2 496.3 Rock Type :Dolostone;pale yellowish brown_10YR 6/2_30 To moderate yellowish brown_10YR 5/4_34
Porosity :Moldic,Pin Point Vugs
Dolomite Properties:50-90% ALTERED;Anhedral GRAIN SIZE : Microcrystalline RANGE :Cryptocrystalline To Microcrystalline
Induration:Good
Cement:Dolomite
Accessory Minerals :
Fossils:Fossil Molds, Benthic Foraminifera, Miliolids
General Fossils :Fossil Molds, Benthic Foraminifera, Miliolids
Sediment Structures:Bioturbated, Burrowed
Other Features :Calcareous
Sample Type :Core

496.3 498.1 Rock Type :Dolostone; To pale yellowish brown_10YR 6/2_30
Porosity :Pin Point Vugs,Intercrystalline
Dolomite Properties:50-90% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-2%, Clay-3%
Fossils:Fossil Molds
General Fossils :Fossil Molds
Sediment Structures:Laminated, Bedded, Bioturbated
Other Features :
Sample Type :Core

498.1 499.7 Rock Type :Dolostone; To pale yellowish brown_10YR 6/2_30
Porosity :Pin Point Vugs,Moldic,Intercrystalline
Dolomite Properties:50-90% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-1%
Fossils:Fossil Molds, Cones
General Fossils :Fossil Molds, Cones
Sediment Structures:
Other Features :Calcareous
Sample Type :Core

499.7 500.2 Rock Type :Dolostone;pale yellowish brown_10YR

6/2_30 To very pale orange_10YR 8/2_29
Porosity :Intercrystalline
Dolomite Properties:50-90% ALTERED;Undetermined
GRAIN SIZE : Microcrystalline RANGE :Cryptocrystalline To Microcrystalline
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-3%, Clay-2%
Sediment Structures:Streaked
Other Features :Calcareous
Sample Type :Core

500.2 503 Rock Type :Dolostone;very pale orange_10YR 8/2_29
Porosity :Moldic,Intercrystalline
Dolomite Properties:50-90% ALTERED;Subhedral GRAIN
SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Clay-1%
Fossils:Fossil Molds, Benthic Foraminifera,
Mollusks, Gastropods
General Fossils :Fossil Molds, Benthic Foraminifera,
Mollusks, Gastropods
Sediment Structures:Bioturbated, Burrowed
Other Features :Calcareous, Medium Recrystallization
Sample Type :Core

503 504.5 Rock Type :Dolostone;light olive gray_5Y 6/1_87 To
very pale orange_10YR 8/2_29
Porosity :Pin Point Vugs
Dolomite Properties:50-90% ALTERED;Anhedral GRAIN
SIZE : Microcrystalline RANGE :Cryptocrystalline To Microcrystalline
Induration:Good
Cement:Dolomite
Accessory Minerals :Clay-<1%
Fossils:Fossil Molds, Gastropods
General Fossils :Fossil Molds, Gastropods
Sediment Structures:
Other Features :Calcareous, Variegated
Sample Type :Core

504.5 506.9 Rock Type :Dolostone;very pale orange_10YR 8/2_29 To
pale yellowish brown_10YR 6/2_30
Porosity :Moldic,Intercrystalline
Dolomite Properties:50-90% ALTERED;Subhedral GRAIN
SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :Clay-<1%
Fossils:Fossil Molds, Gastropods, Miliolids, Benthic
Foraminifera, Mollusks
General Fossils :Fossil Molds, Gastropods,
Miliolids, Benthic Foraminifera, Mollusks
Sediment Structures:Mottled
Other Features :Calcareous
Sample Type :Core

506.9 507.1 Rock Type :Dolostone;dark yellowish brown_10YR
4/2_31 To pale yellowish brown_10YR 6/2_30
Porosity :Intercrystalline,Low Permeability
Dolomite Properties:50-90% ALTERED;Undetermined
GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Microcrystalline
Induration:Moderate
Cement:Dolomite

Accessory Minerals :Clay-5%, Organics-2%
Sediment Structures:Laminated, Streaked
Other Features :Calcareous
Sample Type :Core

507.1 509.1 Rock Type :Dolostone;pale yellowish brown_10YR 6/2_30 To medium light gray_N6_79
Porosity :Moldic,Intercrystalline
Dolomite Properties:50-90% ALTERED;Undetermined GRAIN SIZE : Microcrystalline RANGE :Cryptocrystalline To Very Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Clay-2%
Fossils:Fossil Molds, Miliolids, Gastropods
General Fossils :Fossil Molds, Miliolids, Gastropods
Sediment Structures:Bedded, Bioturbated, Burrowed
Other Features :Calcareous
Sample Type :Core

509.1 509.3 Rock Type :Clay;dark yellowish brown_10YR 4/2_31 To pale yellowish brown_10YR 6/2_30
Porosity :Low Permeability
Induration:Moderate
Cement:Clay Matrix, Dolomite
Accessory Minerals :Dolomite-25%, Organics-2%
Sediment Structures:Streaked
Other Features :
Sample Type :Core

509.3 511.5 Rock Type :Dolostone;very pale orange_10YR 8/2_29 To pale yellowish brown_10YR 6/2_30
Porosity :Moldic,Intercrystalline
Dolomite Properties:50-90% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :
Fossils:Fossil Molds, Gastropods, Miliolids
General Fossils :Fossil Molds, Gastropods, Miliolids
Sediment Structures:Interbedded, Bioturbated, Burrowed
Other Features :Calcareous, Medium Recrystallization
Sample Type :Core

511.5 512.4 Rock Type :Dolostone;very pale orange_10YR 8/2_29 To pale yellowish brown_10YR 6/2_30
Porosity :Intercrystalline,Pin Point Vugs
Dolomite Properties:50-90% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-2%
Sediment Structures:Streaked
Other Features :Calcareous, Low Recrystallization
Sample Type :Core

512.4 513.1 Rock Type :Dolostone;very pale orange_10YR 8/2_29 To yellowish gray_5Y 8/1_86
Porosity :Intercrystalline,Pin Point Vugs
Dolomite Properties:50-90% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Microcrystalline
Induration:Moderate
Cement:Dolomite

Accessory Minerals :Clay-4%, Organics-<1%
Sediment Structures:Streaked
Other Features :Calcareous
Sample Type :Core

513.1 514.9 Rock Type :Dolostone;pale yellowish brown_10YR 6/2_30 To very pale orange_10YR 8/2_29
Porosity :Moldic,Pin Point Vugs,Vugular
Dolomite Properties:50-90% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :
Fossils:Fossil Molds, Gastropods, Miliolids, Benthic Foraminifera, Echinoid
General Fossils :Fossil Molds, Gastropods, Miliolids, Benthic Foraminifera, Echinoid
Sediment Structures:Mottled
Other Features :Calcareous
Sample Type :Core

514.9 515.7 Rock Type :Dolostone;medium light gray_N6_79 To very pale orange_10YR 8/2_29
Porosity :Moldic,Intercrystalline,Pin Point Vugs
Dolomite Properties:50-90% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :
Fossils:Fossil Molds, Miliolids, Gastropods, Benthic Foraminifera
General Fossils :Fossil Molds, Miliolids, Gastropods, Benthic Foraminifera
Sediment Structures:Bioturbated
Other Features :Calcareous, Variegated
Sample Type :Core

515.7 517.1 Rock Type :Limestone;yellowish gray_5Y 8/1_86 To light gray_N7_78
Porosity :Moldic,Pin Point Vugs
LimeStone Properties:GRAIN TYPE : Crystals GRAIN SIZE :Very Fine
Induration:Good
Cement:Sparry Calcite
Accessory Minerals :Pyrite-<1%
Fossils:Fossil Molds, Miliolids
General Fossils :Fossil Molds, Miliolids
Sediment Structures:Bioturbated, Burrowed
Other Features :Dolomitic, High Recrystallization
Sample Type :Core

517.1 522 Rock Type :Silt-Size Dolomite;yellowish gray_5Y 8/1_86 To pale yellowish brown_10YR 6/2_30
Porosity :Intercrystalline
Dolomite Properties:50-90% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-1%, Pyrite-<1%, Clay-<1%
Fossils:Fossil Molds
General Fossils :Fossil Molds
Sediment Structures:Bioturbated, Bedded

Other Features :Calcareous, High Recrystallization
Sample Type :Core

522 522.4 Rock Type :No Sample;
Porosity :
Cement:
Accessory Minerals :
Sediment Structures:
Other Features :
Sample Type :Core

522.4 524.3 Rock Type :Limestone;very pale orange_10YR 8/2_29
Porosity :Moldic,Intercrystalline,Vugular
LimeStone Properties:GRAIN TYPE : Crystals GRAIN SIZE :Very Fine
Induration:Moderate
Cement:Sparry Calcite
Accessory Minerals :Pyrite-<1%
Fossils:Fossil Molds, Miliolids, Gastropods
General Fossils :Fossil Molds, Miliolids, Gastropods
Sediment Structures:
Other Features :Dolomitic, High Recrystallization, Fossilferous
Sample Type :Core

524.3 524.5 Rock Type :Clay;dusky yellowish brown_10YR 2/2_32 To pale yellowish brown_10YR 6/2_30
Porosity :Low Permeability
Induration:Moderate
Cement:Clay Matrix, Organic Matrix
Accessory Minerals :Organics-15%, Silt Size Dolomite-20%
Sediment Structures:
Other Features :Dolomitic
Sample Type :Core

524.5 530.3 Rock Type :Silt-Size Dolomite;very pale orange_10YR 8/2_29 To pale yellowish brown_10YR 6/2_30
Porosity :Intercrystalline
Dolomite Properties:50-90% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Clay-3%, Organics-<1%
Fossils:Fossil Molds
General Fossils :Fossil Molds
Sediment Structures:Streaked, Laminated, Bedded, Bioturbated
Other Features :Calcareous
Sample Type :Core

530.3 532.9 Rock Type :Dolostone;very pale orange_10YR 8/2_29 To medium light gray_N6_79
Porosity :Intercrystalline
Dolomite Properties:50-90% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Microcrystalline
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Clay-1%, Organics-<1%
Fossils:Fossil Molds
General Fossils :Fossil Molds
Sediment Structures:Bedded, Bioturbated, Burrowed
Other Features :Calcareous

Sample Type :Core

532.9 536.1 Rock Type :Silt-Size Dolomite;pale yellowish brown_10YR 6/2_30 To dusky yellowish brown_10YR 2/2_32
Porosity :Vugular,Intercrystalline
Dolomite Properties:50-90% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Microcrystalline
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Chert-7%, Organics-5%
Fossils:Plant Remains
General Fossils :Plant Remains
Sediment Structures:
Other Features :Calcareous
Sample Type :Core

536.1 536.4 Rock Type :Peat;black_N1_83
Porosity :Low Permeability
Induration:Poor
Cement:Organic Matrix
Accessory Minerals :
Sediment Structures:
Other Features :
Sample Type :Core

536.4 538.3 Rock Type :Dolostone;yellowish gray_5Y 8/1_86 To light gray_N7_78
Porosity :Pin Point Vugs
Dolomite Properties:50-90% ALTERED;Undetermined GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Microcrystalline
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-2%, Calcite-<1%
Fossils:Fossil Molds
General Fossils :Fossil Molds
Sediment Structures:Bioturbated, Burrowed
Other Features :Calcareous, Medium Recrystallization
Sample Type :Core

538.3 540.3 Rock Type :Silt-Size Dolomite;pale yellowish brown_10YR 6/2_30 To very pale orange_10YR 8/2_29
Porosity :Intercrystalline,Low Permeability
Dolomite Properties:50-90% ALTERED;Undetermined GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Microcrystalline
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-3%, Clay-2%
Fossils:Plant Remains
General Fossils :Plant Remains
Sediment Structures:Bioturbated
Other Features :Calcareous
Sample Type :Core

540.3 542 Rock Type :Dolostone;very pale orange_10YR 8/2_29 To pale yellowish brown_10YR 6/2_30
Porosity :Pin Point Vugs
Dolomite Properties:50-90% ALTERED;Undetermined GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Microcrystalline
Induration:Good
Cement:Dolomite
Accessory Minerals :Organics-1%
Sediment Structures:Bioturbated
Other Features :Calcareous

Sample Type :Core

542 542.8 Rock Type :Dolostone;pale yellowish brown_10YR 6/2_30
Porosity :Moldic,Intercrystalline
Dolomite Properties:50-90% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :Organics-<1%
Fossils:Fossil Molds, Miliolids, Mollusks, Benthic Foraminifera
General Fossils :Fossil Molds, Miliolids, Mollusks, Benthic Foraminifera
Sediment Structures:
Other Features :Calcareous
Sample Type :Core

542.8 543.7 Rock Type :Dolostone;pale yellowish brown_10YR 6/2_30
Porosity :Intercrystalline
Dolomite Properties:50-90% ALTERED;Undetermined GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-5%
Fossils:Plant Remains
General Fossils :Plant Remains
Sediment Structures:Streaked
Other Features :Calcareous
Sample Type :Core

543.7 544.9 Rock Type :Dolostone;pale yellowish brown_10YR 6/2_30
Porosity :Moldic,Low Permeability
Dolomite Properties:90-100% ALTERED;Undetermined GRAIN SIZE : Microcrystalline RANGE :Cryptocrystalline To Microcrystalline
Induration:Good
Cement:Dolomite
Accessory Minerals :
Fossils:Fossil Molds, Miliolids
General Fossils :Fossil Molds, Miliolids
Sediment Structures:
Other Features :
Sample Type :Core

544.9 545.1 Rock Type :Peat;black_N1_83
Porosity :Low Permeability
Induration:Poor
Cement:Organic Matrix, Dolomite
Accessory Minerals :Dolomite-10%
Sediment Structures:
Other Features :
Sample Type :Core

545.1 547 Rock Type :Silt-Size Dolomite;pale yellowish brown_10YR 6/2_30 To dark yellowish brown_10YR 4/2_31
Porosity :Vugular,Intercrystalline
Dolomite Properties:50-90% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-10%, Quartz-1%

Fossils:Plant Remains
General Fossils :Plant Remains
Sediment Structures:
Other Features :Calcareous
Sample Type :Core

547 549.3 Rock Type :Dolostone;pale yellowish brown_10YR 6/2_30 To moderate yellowish brown_10YR 5/4_34
Porosity :Pin Point Vugs,Vugular
Dolomite Properties:90-100% ALTERED;Undetermined GRAIN SIZE : Microcrystalline RANGE :Cryptocrystalline To Very Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :Organics-7%, Quartz-1%
Fossils:Plant Remains
General Fossils :Plant Remains
Sediment Structures:
Other Features :
Sample Type :Core

549.3 549.7 Rock Type :Silt-Size Dolomite;pale yellowish brown_10YR 6/2_30
Porosity :Intercrystalline
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-7%
Fossils:Plant Remains
General Fossils :Plant Remains
Sediment Structures:
Other Features :
Sample Type :Core

549.7 549.9 Rock Type :Peat;black_N1_83
Porosity :Low Permeability
Induration:Poor
Cement:Organic Matrix
Accessory Minerals :
Sediment Structures:
Other Features :Partings
Sample Type :Core

549.9 554.8 Rock Type :Dolostone;moderate yellowish brown_10YR 5/4_34 To dusky yellowish brown_10YR 2/2_32
Porosity :Intercrystalline
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-20%, Quartz-1%, Chert-1%
Sediment Structures:Streaked
Other Features :
Sample Type :Core

554.8 555.3 Rock Type :Dolostone;dark yellowish brown_10YR 4/2_31 To black_N1_83
Porosity :Pin Point Vugs,Low Permeability
Dolomite Properties:90-100% ALTERED;Undetermined GRAIN SIZE : Microcrystalline RANGE :Cryptocrystalline To Microcrystalline
Induration:Good
Cement:Dolomite

Accessory Minerals :Organics-25%
Sediment Structures:Streaked, Laminated
Other Features :
Sample Type :Core

555.3 557.5 Rock Type :Dolostone;moderate yellowish brown_10YR 5/4_34 To dusky yellowish brown_10YR 2/2_32
Porosity :Moldic,Pin Point Vugs,Intercrystalline
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :Organics-15%
Fossils:Fossil Molds, Miliolids, Gastropods, Benthic Foraminifera, Plant Remains
General Fossils :Fossil Molds, Miliolids, Gastropods, Benthic Foraminifera, Plant Remains
Sediment Structures:Streaked
Other Features :
Sample Type :Core

557.5 561.2 Rock Type :Dolostone;moderate yellowish brown_10YR 5/4_34 To black_N1_83
Porosity :Intercrystalline,Moldic
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Very Fine RANGE :Microcrystalline To Very Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-25%
Fossils:Fossil Molds
General Fossils :Fossil Molds
Sediment Structures:Streaked, Laminated, Interbedded
Other Features :
Sample Type :Core

561.2 563.9 Rock Type :Dolostone;dark yellowish brown_10YR 4/2_31
Porosity :Moldic,Vugular
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :Organics-<1%, Quartz-1%
Fossils:Fossil Molds
General Fossils :Fossil Molds
Sediment Structures:
Other Features :
Sample Type :Core

563.9 564 Rock Type :Dolostone; To pale yellowish brown_10YR 6/2_30
Porosity :Intercrystalline,Moldic
Dolomite Properties:50-90% ALTERED;Anhedral GRAIN SIZE : Very Fine RANGE :Microcrystalline To Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-1%, Clay-<1%
Fossils:Fossil Molds, Benthic Foraminifera, Gastropods
General Fossils :Fossil Molds, Benthic Foraminifera, Gastropods
Sediment Structures:Streaked
Other Features :

Sample Type :Core

564 564.5 Rock Type :No Sample;
Porosity :
Cement:
Accessory Minerals :
Sediment Structures:
Other Features :
Sample Type :Core

564.5 567.8 Rock Type :Dolostone;moderate yellowish brown_10YR 5/4_34 To dark yellowish brown_10YR 4/2_31
Porosity :Moldic,Vugular
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :Organics-1%, Quartz-3%
Fossils:Fossil Molds, Benthic Foraminifera
General Fossils :Fossil Molds, Benthic Foraminifera
Sediment Structures:Bioturbated
Other Features :
Sample Type :Core

567.8 569.8 Rock Type :Dolostone;moderate yellowish brown_10YR 5/4_34 To dark yellowish brown_10YR 4/2_31
Porosity :Intercrystalline,Moldic
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-1%, Quartz-1%
Fossils:Fossil Molds, Benthic Foraminifera
General Fossils :Fossil Molds, Benthic Foraminifera
Sediment Structures:
Other Features :
Sample Type :Core

569.8 571.7 Rock Type :Dolostone;moderate yellowish brown_10YR 5/4_34 To dark yellowish brown_10YR 4/2_31
Porosity :Intercrystalline,Moldic
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Very Fine RANGE :Microcrystalline To Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-2%
Fossils:Fossil Molds, Benthic Foraminifera
General Fossils :Fossil Molds, Benthic Foraminifera
Sediment Structures:Streaked, Interbedded
Other Features :
Sample Type :Core

571.7 573.6 Rock Type :Dolostone;dark yellowish brown_10YR 4/2_31 To moderate yellowish brown_10YR 5/4_34
Porosity :Moldic,Intercrystalline
Dolomite Properties:90-100% ALTERED;Undetermined GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :Quartz-1%
Fossils:Fossil Molds, Benthic Foraminifera
General Fossils :Fossil Molds, Benthic Foraminifera
Sediment Structures:

Other Features :
Sample Type :Core

573.6 574.8 Rock Type :Dolostone;dark yellowish brown_10YR 4/2_31 To moderate yellowish brown_10YR 5/4_34
Porosity :Moldic,Intercrystalline
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :Quartz-<1%
Fossils:Fossil Molds, Benthic Foraminifera
General Fossils :Fossil Molds, Benthic Foraminifera
Sediment Structures:Interbedded
Other Features :
Sample Type :Core

574.8 576.5 Rock Type :Dolostone;moderate yellowish brown_10YR 5/4_34 To dark yellowish brown_10YR 4/2_31
Porosity :Intercrystalline,Moldic
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-1%
Fossils:Fossil Molds, Benthic Foraminifera
General Fossils :Fossil Molds, Benthic Foraminifera
Sediment Structures:Bedded
Other Features :
Sample Type :Core

576.5 577 Rock Type :Dolostone;moderate yellowish brown_10YR 5/4_34 To dark yellowish brown_10YR 4/2_31
Porosity :Intercrystalline,Pin Point Vugs
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Very Fine RANGE :Microcrystalline To Very Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Quartz-2%
Sediment Structures:Streaked
Other Features :
Sample Type :Core

577 578.9 Rock Type :Dolostone;moderate yellowish brown_10YR 5/4_34 To dark yellowish brown_10YR 4/2_31
Porosity :Moldic,Intercrystalline,Fracture
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-<1%
Fossils:Fossil Molds, Benthic Foraminifera
General Fossils :Fossil Molds, Benthic Foraminifera
Sediment Structures:Interbedded
Index Fossils :Cushmania (Dictyoconus) americana (Avon Park Fm.)

Other Features :
Sample Type :Core

578.9 580 Rock Type :Dolostone;moderate yellowish brown_10YR 5/4_34 To dusky yellowish brown_10YR 2/2_32
Porosity :Fracture,Intercrystalline,Moldic

Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Cryptocrystalline To Very Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-3%
Fossils:Fossil Molds
General Fossils :Fossil Molds
Sediment Structures:Streaked
Other Features :Medium Recrystallization, Variegated
Sample Type :Core

580 580.4 Rock Type :No Sample;
Porosity :
Cement:
Accessory Minerals :
Sediment Structures:
Other Features :
Sample Type :Core

580.4 582.7 Rock Type :Dolostone;moderate yellowish brown_10YR 5/4_34 To dusky yellowish brown_10YR 2/2_32
Porosity :Intercrystalline,Moldic,Vugular
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Cryptocrystalline To Very Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-3%
Fossils:Fossil Molds
General Fossils :Fossil Molds
Sediment Structures:Streaked
Other Features :Medium Recrystallization, Variegated
Sample Type :Core

582.7 583 Rock Type :Dolostone;moderate yellowish brown_10YR 5/4_34 To dark yellowish brown_10YR 4/2_31
Porosity :Moldic
Dolomite Properties:90-100% ALTERED;Undetermined GRAIN SIZE : Microcrystalline RANGE :Cryptocrystalline To Microcrystalline
Induration:Good
Cement:Dolomite
Accessory Minerals :Calcite-<1%
Fossils:Fossil Molds
General Fossils :Fossil Molds
Sediment Structures:
Other Features :High Recrystallization
Sample Type :Core

583 583.5 Rock Type :Dolostone;moderate yellowish brown_10YR 5/4_34
Porosity :Intercrystalline
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Very Fine RANGE :Microcrystalline To Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :
Sediment Structures:
Other Features :Medium Recrystallization
Sample Type :Core

583.5 586 Rock Type :Dolostone;moderate yellowish brown_10YR 5/4_34 To dark yellowish brown_10YR 4/2_31
Porosity :Intercrystalline,Pin Point Vugs
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN

SIZE : Very Fine RANGE :Microcrystalline To Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-3%
Sediment Structures:Bioturbated, Burrowed
Other Features :Medium Recrystallization, Sucrosic
Sample Type :Core

586 586.5 Rock Type :Dolostone;dark yellowish brown_10YR 4/2_31 To dark yellowish orange_10YR 6/6_36
Porosity :Moldic,Fracture
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :
Fossils:Fossil Molds, Benthic Foraminifera
General Fossils :Fossil Molds, Benthic Foraminifera
Sediment Structures:
Other Features :Medium Recrystallization, Variegated
Sample Type :Core

586.5 590 Rock Type :Dolostone;moderate yellowish brown_10YR 5/4_34 To dark yellowish brown_10YR 4/2_31
Porosity :Intercrystalline,Pin Point Vugs
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Fine RANGE :Microcrystalline To Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-1%
Fossils:Fossil Molds
General Fossils :Fossil Molds
Sediment Structures:Mottled, Bioturbated, Streaked
Other Features :High Recrystallization, Sucrosic
Sample Type :Core

590 593.5 Rock Type :Dolostone;moderate yellowish brown_10YR 5/4_34
Porosity :Intercrystalline,Pin Point Vugs
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Very Fine RANGE :Microcrystalline To Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-3%
Sediment Structures:Streaked
Other Features :High Recrystallization, Sucrosic
Sample Type :Core

593.5 596.1 Rock Type :Dolostone;moderate yellowish brown_10YR 5/4_34 To dark yellowish brown_10YR 4/2_31
Porosity :Moldic,Intercrystalline
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Very Fine RANGE :Microcrystalline To Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-1%
Fossils:Fossil Molds, Benthic Foraminifera, Echinoid
General Fossils :Fossil Molds, Benthic Foraminifera, Echinoid
Sediment Structures:Laminated
Other Features :Medium Recrystallization
Sample Type :Core

596.1 597.1 Rock Type :Dolostone;moderate yellowish brown_10YR 5/4_34 To pale yellowish brown_10YR 6/2_30
Porosity :Pin Point Vugs
Dolomite Properties:90-100% ALTERED;Undetermined GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :
Fossils:Fossil Molds
General Fossils :Fossil Molds
Sediment Structures:
Other Features :High Recrystallization
Sample Type :Core

597.1 597.5 Rock Type :Dolostone;moderate yellowish brown_10YR 5/4_34
Porosity :Moldic,Intercrystalline
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Very Fine RANGE :Microcrystalline To Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-<1%
Fossils:Fossil Molds, Benthic Foraminifera
General Fossils :Fossil Molds, Benthic Foraminifera
Sediment Structures:
Other Features :
Sample Type :Core

597.5 598.3 Rock Type :Dolostone;moderate yellowish brown_10YR 5/4_34 To dark yellowish brown_10YR 4/2_31
Porosity :Pin Point Vugs,Intercrystalline
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Very Fine RANGE :Microcrystalline To Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-2%
Sediment Structures:Streaked
Other Features :
Sample Type :Core

598.3 599.4 Rock Type :Dolostone;dark yellowish brown_10YR 4/2_31 To moderate yellowish brown_10YR 5/4_34
Porosity :Moldic
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Very Fine RANGE :Microcrystalline To Very Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :Organics-<1%, Quartz-<1%
Fossils:Fossil Molds, Benthic Foraminifera, Cones
General Fossils :Fossil Molds, Benthic Foraminifera, Cones
Sediment Structures:
Other Features :High Recrystallization
Sample Type :Core

599.4 600.8 Rock Type :Dolostone;moderate yellowish brown_10YR 5/4_34 To dark yellowish brown_10YR 4/2_31
Porosity :Moldic,Intercrystalline
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Very Fine RANGE :Microcrystalline To Very Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-2%, Quartz-<1%

Fossils:Fossil Molds, Plant Remains
General Fossils :Fossil Molds, Plant Remains
Sediment Structures:Streaked
Other Features :
Sample Type :Core

600.8 603.2 Rock Type :Dolostone;moderate yellowish brown_10YR 5/4_34 To pale yellowish brown_10YR 6/2_30
Porosity :Moldic,Pin Point Vugs,Intercrystalline
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :Organics-<1%
Fossils:Fossil Molds, Benthic Foraminifera, Cones, Mollusks
General Fossils :Fossil Molds, Benthic Foraminifera, Cones, Mollusks
Sediment Structures:
Index Fossils :Cushmania (Dictyoconus) americana (Avon Park Fm.)

Other Features :
Sample Type :Core

603.2 603.6 Rock Type :Dolostone;pale yellowish brown_10YR 6/2_30 To dark yellowish brown_10YR 4/2_31
Porosity :Intercrystalline,Pin Point Vugs
Dolomite Properties:50-90% ALTERED;Undetermined GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-5%, Limestone-10%
Fossils:Fossil Molds
General Fossils :Fossil Molds
Sediment Structures:Streaked, Laminated
Other Features :Calcareous
Sample Type :Core

603.6 604.4 Rock Type :Dolostone;pale yellowish brown_10YR 6/2_30 To moderate yellowish brown_10YR 5/4_34
Porosity :Pin Point Vugs,Moldic
Dolomite Properties:50-90% ALTERED;Undetermined GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Microcrystalline
Induration:Good
Cement:Dolomite
Accessory Minerals :Quartz-<1%
Fossils:Fossil Molds
General Fossils :Fossil Molds
Sediment Structures:
Other Features :Calcareous
Sample Type :Core

604.4 604.7 Rock Type :Dolostone;dark yellowish brown_10YR 4/2_31 To dusky yellowish brown_10YR 2/2_32
Porosity :Intercrystalline,Pin Point Vugs
Dolomite Properties:50-90% ALTERED;Undetermined GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-5%, Limestone-10%
Sediment Structures:Streaked, Laminated
Other Features :Calcareous

Sample Type :Core

604.7 605.7 Rock Type :Dolostone;moderate yellowish brown_10YR 5/4_34
Porosity :Moldic,Intercrystalline,Pin Point Vugs
Dolomite Properties:50-90% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-1%
Fossils:Fossil Molds, Benthic Foraminifera
General Fossils :Fossil Molds, Benthic Foraminifera
Sediment Structures:
Other Features :Calcareous
Sample Type :Core

605.7 607.2 Rock Type :Dolostone;moderate yellowish brown_10YR 5/4_34
Porosity :Moldic,Pin Point Vugs
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Microcrystalline
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-1%
Fossils:Fossil Molds, Benthic Foraminifera, Echinoid
General Fossils :Fossil Molds, Benthic Foraminifera, Echinoid
Sediment Structures:
Other Features :
Sample Type :Core

607.2 608 Rock Type :Dolostone;dark yellowish brown_10YR 4/2_31 To pale yellowish brown_10YR 6/2_30
Porosity :Pin Point Vugs
Dolomite Properties:90-100% ALTERED;Undetermined GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Microcrystalline
Induration:Good
Cement:Dolomite
Accessory Minerals :Quartz-<1%
Fossils:Fossil Molds
General Fossils :Fossil Molds
Sediment Structures:
Other Features :Medium Recrystallization
Sample Type :Core

608 608.6 Rock Type :Dolostone;moderate yellowish brown_10YR 5/4_34
Porosity :Intercrystalline,Pin Point Vugs
Dolomite Properties:50-90% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-3%, Clay-<1%
Sediment Structures:Laminated, Streaked
Other Features :Variegated
Sample Type :Core

608.6 610.7 Rock Type :Dolostone;moderate yellowish brown_10YR 5/4_34 To dark yellowish brown_10YR 4/2_31
Porosity :Moldic,Intercrystalline,Pin Point Vugs
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Very Fine RANGE :Microcrystalline To Very Fine
Induration:Moderate

Cement:Dolomite
Accessory Minerals :Organics-3%
Fossils:Fossil Molds, Benthic Foraminifera, Cones
General Fossils :Fossil Molds, Benthic Foraminifera, Cones
Sediment Structures:Streaked
Index Fossils :Cushmania (Dictyoconus) americana (Avon Park Fm.)

Other Features :
Sample Type :Core

610.7 612.5 Rock Type :Dolostone;moderate yellowish brown_10YR 5/4_34 To dark yellowish brown_10YR 4/2_31
Porosity :Moldic,Pin Point Vugs,Intercrystalline
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Very Fine RANGE :Microcrystalline To Very Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :Organics-1%
Fossils:Fossil Molds, Benthic Foraminifera
General Fossils :Fossil Molds, Benthic Foraminifera
Sediment Structures:
Other Features :Medium Recrystallization
Sample Type :Core

612.5 615.9 Rock Type :Dolostone;moderate yellowish brown_10YR 5/4_34 To dark yellowish brown_10YR 4/2_31
Porosity :Pin Point Vugs,Moldic
Dolomite Properties:50-90% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-2%
Fossils:Fossil Molds, Benthic Foraminifera
General Fossils :Fossil Molds, Benthic Foraminifera
Sediment Structures:Streaked, Interbedded
Other Features :Calcareous, Medium Recrystallization
Sample Type :Core

615.9 619.4 Rock Type :Dolostone;moderate yellowish brown_10YR 5/4_34 To dark yellowish brown_10YR 4/2_31
Porosity :Moldic,Pin Point Vugs
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Very Fine RANGE :Microcrystalline To Very Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-<1%
Fossils:Fossil Molds, Benthic Foraminifera, Echinoid
General Fossils :Fossil Molds, Benthic Foraminifera, Echinoid
Sediment Structures:
Other Features :Calcareous, Medium Recrystallization
Sample Type :Core

619.4 621.2 Rock Type :Dolostone;moderate yellowish brown_10YR 5/4_34 To dark yellowish brown_10YR 4/2_31
Porosity :Intercrystalline,Pin Point Vugs,Fracture
Dolomite Properties:50-90% ALTERED;Subhedral GRAIN SIZE : Very Fine RANGE :Microcrystalline To Very Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-2%

Sediment Structures:Streaked
Other Features :Calcareous, Medium Recrystallization
Sample Type :Core

621.2 624.3 Rock Type :Dolostone;pale yellowish brown_10YR 6/2_30 To dusky yellowish brown_10YR 2/2_32
Porosity :Moldic,Pin Point Vugs
Dolomite Properties:90-100% ALTERED;Undetermined GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :Organics-<1%, Quartz-<1%
Fossils:Fossil Molds, Benthic Foraminifera
General Fossils :Fossil Molds, Benthic Foraminifera
Sediment Structures:
Other Features :
Sample Type :Core

624.3 624.5 Rock Type :Dolostone;moderate yellowish brown_10YR 5/4_34 To dark yellowish brown_10YR 4/2_31
Porosity :Intercrystalline
Dolomite Properties:50-90% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-<1%, Clay-<1%
Sediment Structures:Streaked
Other Features :Calcareous
Sample Type :Core

624.5 629.8 Rock Type :Dolostone;moderate yellowish brown_10YR 5/4_34
Porosity :Moldic,Intercrystalline
Dolomite Properties:50-90% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Quartz-<1%, Organics-<1%
Fossils:Fossil Molds, Benthic Foraminifera, Mollusks
General Fossils :Fossil Molds, Benthic Foraminifera, Mollusks
Sediment Structures:
Other Features :Calcareous
Sample Type :Core

629.8 630.3 Rock Type :Dolostone;pale yellowish brown_10YR 6/2_30
Porosity :Vugular,Pin Point Vugs
Dolomite Properties:50-90% ALTERED;Undetermined GRAIN SIZE : Microcrystalline RANGE :Cryptocrystalline To Microcrystalline
Induration:Good
Cement:Dolomite
Accessory Minerals :
Fossils:Fossil Molds, Gastropods
General Fossils :Fossil Molds, Gastropods
Sediment Structures:
Other Features :Calcareous, Weathered
Sample Type :Core

630.3 630.8 Rock Type :No Sample;
Porosity :
Cement:
Accessory Minerals :

Sediment Structures:
Other Features :
Sample Type :Core

630.8 631 Rock Type :Dolostone;moderate yellowish brown_10YR 5/4_34 To pale yellowish brown_10YR 6/2_30
Porosity :Moldic,Intercrystalline,Pin Point Vugs
Dolomite Properties:50-90% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-<1%, Quartz-<1%
Fossils:Fossil Molds, Benthic Foraminifera
General Fossils :Fossil Molds, Benthic Foraminifera
Sediment Structures:
Other Features :Calcareous
Sample Type :Core

631 631.5 Rock Type :Dolostone;very pale orange_10YR 8/2_29 To dusky yellowish brown_10YR 2/2_32
Porosity :Intercrystalline,Pin Point Vugs
Dolomite Properties:50-90% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-2%, Quartz-<1%
Fossils:Fossil Molds
General Fossils :Fossil Molds
Sediment Structures:Laminated, Streaked
Other Features :Calcareous
Sample Type :Core

631.5 635.1 Rock Type :Dolostone;moderate yellowish brown_10YR 5/4_34
Porosity :Moldic,Pin Point Vugs,Intercrystalline
Dolomite Properties:50-90% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-<1%, Quartz-1%
Fossils:Fossil Molds, Benthic Foraminifera, Cones
General Fossils :Fossil Molds, Benthic Foraminifera, Cones
Sediment Structures:
Index Fossils :Cushmania (Dictyoconus) americana (Avon Park Fm.)

Other Features :Calcareous, Medium Recrystallization
Sample Type :Core

635.1 635.7 Rock Type :Dolostone; To pale yellowish brown_10YR 6/2_30
Porosity :Moldic,Pin Point Vugs,Vugular
Dolomite Properties:50-90% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-<1%, Quartz-1%
Fossils:Fossil Molds, Benthic Foraminifera, Cones
General Fossils :Fossil Molds, Benthic Foraminifera, Cones
Sediment Structures:Mottled
Index Fossils :Cushmania (Dictyoconus) americana

(Avon Park Fm.)

Other Features :Calcareous, Medium Recrystallization
Sample Type :Core

635.7 640.2 Rock Type :Dolostone;moderate yellowish brown_10YR 5/4_34
Porosity :Vugular,Moldic,Pin Point Vugs
Dolomite Properties:50-90% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-<1%, Quartz-<1%
Fossils:Fossil Molds, Benthic Foraminifera
General Fossils :Fossil Molds, Benthic Foraminifera
Sediment Structures:Bioturbated
Other Features :Calcareous, Medium Recrystallization
Sample Type :Core

640.2 642.2 Rock Type :Dolostone;pale yellowish brown_10YR 6/2_30
Porosity :Pin Point Vugs,Vugular
Dolomite Properties:50-90% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Microcrystalline
Induration:Good
Cement:Dolomite
Accessory Minerals :Organics-<1%, Quartz-<1%
Fossils:Fossil Molds
General Fossils :Fossil Molds
Sediment Structures:
Other Features :Calcareous, High Recrystallization
Sample Type :Core

642.2 644.4 Rock Type :Dolostone;pale yellowish brown_10YR 6/2_30
Porosity :Moldic,Pin Point Vugs
Dolomite Properties:50-90% ALTERED;Undetermined GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Microcrystalline
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-<1%
Fossils:Fossil Molds
General Fossils :Fossil Molds
Sediment Structures:Bioturbated
Other Features :Calcareous, Medium Recrystallization
Sample Type :Core

644.4 644.9 Rock Type :Dolostone;moderate yellowish brown_10YR 5/4_34
Porosity :Pin Point Vugs
Dolomite Properties:90-100% ALTERED;Undetermined GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Microcrystalline
Induration:Good
Cement:Dolomite
Accessory Minerals :
Sediment Structures:
Other Features :High Recrystallization
Sample Type :Core

644.9 645.1 Rock Type :Dolostone;dark yellowish brown_10YR 4/2_31 To moderate yellowish brown_10YR 5/4_34
Porosity :Intercrystalline
Dolomite Properties:50-90% ALTERED;Undetermined

GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Microcrystalline
Induration:Moderate
Cement:Dolomite, Clay Matrix
Accessory Minerals :Organics-2%, Clay-5%
Sediment Structures:
Other Features :Calcareous
Sample Type :Core

645.1 648 Rock Type :Dolostone; To moderate yellowish brown_10YR 5/4_34
Porosity :Moldic,Pin Point Vugs
Dolomite Properties:50-90% ALTERED;Undetermined
GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-1%, Clay-<1%, Quartz-<1%
Fossils:Fossil Molds, Benthic Foraminifera
General Fossils :Fossil Molds, Benthic Foraminifera
Sediment Structures:Bioturbated
Other Features :Calcareous, Medium Recrystallization
Sample Type :Core

648 648.5 Rock Type :No Sample;
Porosity :
Cement:
Accessory Minerals :
Sediment Structures:
Other Features :
Sample Type :Core

648.5 649.4 Rock Type :Dolostone; To pale yellowish brown_10YR 6/2_30
Porosity :Moldic,Pin Point Vugs,Intercrystalline
Dolomite Properties:50-90% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :Organics-<1%
Fossils:Fossil Molds, Mollusks, Benthic Foraminifera, Gastropods
General Fossils :Fossil Molds, Mollusks, Benthic Foraminifera, Gastropods
Sediment Structures:Bioturbated, Burrowed
Index Fossils :Cushmania (Dictyoconus) americana (Avon Park Fm.)

Other Features :Calcareous, Medium Recrystallization
Sample Type :Core

649.4 650.2 Rock Type :Dolostone; To pale yellowish brown_10YR 6/2_30
Porosity :Intercrystalline,Pin Point Vugs
Dolomite Properties:50-90% ALTERED;Subhedral GRAIN SIZE : Very Fine RANGE :Microcrystalline To Very Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-1%
Sediment Structures:
Other Features :Calcareous
Sample Type :Core

650.2 651.8 Rock Type :Dolostone; To pale yellowish brown_10YR

6/2_30
Porosity :Moldic,Pin Point Vugs
Dolomite Properties:50-90% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :
Fossils:Fossil Molds, Benthic Foraminifera, Cones
General Fossils :Fossil Molds, Benthic Foraminifera, Cones
Sediment Structures:Bioturbated, Burrowed
Other Features :Calcareous, Medium Recrystallization
Sample Type :Core

651.8 656.4 Rock Type :Dolostone; To pale yellowish brown_10YR 6/2_30
Porosity :Intercrystalline,Pin Point Vugs,Moldic
Dolomite Properties:50-90% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Clay-2%, Organics-1%, Quartz-<1%
Fossils:Fossil Molds, Benthic Foraminifera, Cones
General Fossils :Fossil Molds, Benthic Foraminifera, Cones
Sediment Structures:Interbedded, Streaked
Other Features :Calcareous, Medium Recrystallization
Sample Type :Core

656.4 658.3 Rock Type :Dolostone;pale yellowish brown_10YR 6/2_30 To very pale orange_10YR 8/2_29
Porosity :Pin Point Vugs,Vugular
Dolomite Properties:50-90% ALTERED;Undetermined GRAIN SIZE : Microcrystalline RANGE :Cryptocrystalline To Microcrystalline
Induration:Good
Cement:Dolomite
Accessory Minerals :Organics-<1%, Quartz-1%
Fossils:Fossil Molds
General Fossils :Fossil Molds
Sediment Structures:Banded, Bioturbated, Burrowed
Other Features :Calcareous, High Recrystallization
Sample Type :Core

658.3 658.9 Rock Type :Dolostone;pale yellowish brown_10YR 6/2_30 To moderate yellowish brown_10YR 5/4_34
Porosity :Intercrystalline,Vugular
Dolomite Properties:50-90% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-5%, Quartz-2%
Sediment Structures:
Other Features :Calcareous, Medium Recrystallization
Sample Type :Core

658.9 662.3 Rock Type :Dolostone;moderate yellowish brown_10YR 5/4_34
Porosity :Moldic,Pin Point Vugs
Dolomite Properties:50-90% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-<1%

Fossils:Fossil Molds, Benthic Foraminifera, Cones, Mollusks
General Fossils :Fossil Molds, Benthic Foraminifera, Cones, Mollusks
Sediment Structures:
Other Features :Calcareous, Medium Recrystallization
Sample Type :Core

662.3 662.5 Rock Type :Dolostone;pale yellowish brown_10YR 6/2_30
Porosity :Intercrystalline
Dolomite Properties:50-90% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-3%
Sediment Structures:Streaked
Other Features :Calcareous, Medium Recrystallization
Sample Type :Core

662.5 666 Rock Type :Dolostone;moderate yellowish brown_10YR 5/4_34
Porosity :Moldic,Pin Point Vugs
Dolomite Properties:50-90% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-<1%
Fossils:Fossil Molds, Benthic Foraminifera, Cones, Mollusks
General Fossils :Fossil Molds, Benthic Foraminifera, Cones, Mollusks
Sediment Structures:
Other Features :Calcareous, Medium Recrystallization
Sample Type :Core

666 666.8 Rock Type :Dolostone;pale yellowish brown_10YR 6/2_30
Porosity :Intercrystalline
Dolomite Properties:50-90% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-3%
Sediment Structures:Streaked
Other Features :Calcareous, Medium Recrystallization
Sample Type :Core

666.8 669.5 Rock Type :Dolostone;moderate yellowish brown_10YR 5/4_34
Porosity :Moldic,Pin Point Vugs
Dolomite Properties:50-90% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-1%, Quartz-<1%
Fossils:Fossil Molds, Benthic Foraminifera, Cones, Mollusks
General Fossils :Fossil Molds, Benthic Foraminifera, Cones, Mollusks
Sediment Structures:
Other Features :Calcareous, Medium Recrystallization
Sample Type :Core

669.5 669.7 Rock Type :Dolostone; To medium gray_N5_80
Porosity :Moldic,Pin Point Vugs
Dolomite Properties:50-90% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-1%
Fossils:Fossil Molds, Benthic Foraminifera
General Fossils :Fossil Molds, Benthic Foraminifera
Sediment Structures:Bioturbated, Burrowed
Other Features :Calcareous, Medium Recrystallization
Sample Type :Core

669.7 671.2 Rock Type :Dolostone; To moderate yellowish brown_10YR 5/4_34
Porosity :Pin Point Vugs,Intercrystalline
Dolomite Properties:50-90% ALTERED;Subhedral GRAIN SIZE : Very Fine RANGE :Microcrystalline To Very Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-3%
Fossils:Fossil Molds
General Fossils :Fossil Molds
Sediment Structures:Streaked
Other Features :Medium Recrystallization, Variegated
Sample Type :Core

671.2 674.3 Rock Type :Dolostone;very pale orange_10YR 8/2_29 To moderate yellowish brown_10YR 5/4_34
Porosity :Vugular,Pin Point Vugs,Moldic
Dolomite Properties:50-90% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Cryptocrystalline To Very Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-1%
Fossils:Fossil Molds, Benthic Foraminifera, Mollusks, Gastropods
General Fossils :Fossil Molds, Benthic Foraminifera, Mollusks, Gastropods
Sediment Structures:Bedded, Streaked, Bioturbated, Burrowed
Other Features :Calcareous, Medium Recrystallization
Sample Type :Core

674.3 682.5 Rock Type :Dolostone;moderate yellowish brown_10YR 5/4_34
Porosity :Moldic,Intercrystalline,Pin Point Vugs
Dolomite Properties:50-90% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-3%, Clay-1%
Fossils:Fossil Molds, Benthic Foraminifera, Mollusks, Gastropods, Cones
General Fossils :Fossil Molds, Benthic Foraminifera, Mollusks, Gastropods, Cones
Sediment Structures:Bedded
Other Features :Calcareous, Medium Recrystallization
Sample Type :Core

682.5 687.3 Rock Type :Dolostone;moderate yellowish brown_10YR 5/4_34 To dark yellowish brown_10YR 4/2_31

Porosity :Moldic,Possibly High Permeability
Dolomite Properties:50-90% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-3%
Fossils:Fossil Molds, Benthic Foraminifera, Mollusks, Echinoid, Coral
General Fossils :Fossil Molds, Benthic Foraminifera, Mollusks, Echinoid, Coral
Sediment Structures:Burrowed
Index Fossils :Neolaganum dalli (Avon Park Fm.)

Other Features :Calcareous, Fossilferous, Low Recrystallization
Sample Type :Core

687.3 687.6 Rock Type :Dolostone;pale yellowish brown_10YR 6/2_30
Porosity :Intercrystalline
Dolomite Properties:50-90% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-5%
Sediment Structures:Streaked, Laminated
Other Features :Calcareous
Sample Type :Core

687.6 688.6 Rock Type :Dolostone; To dark yellowish brown_10YR 4/2_31
Porosity :Intercrystalline,Vugular
Dolomite Properties:50-90% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-5%, Quartz-3%
Fossils:Fossil Molds
General Fossils :Fossil Molds
Sediment Structures:Streaked, Bioturbated
Other Features :Calcareous, Medium Recrystallization
Sample Type :Core

688.9 690 Rock Type :Dolostone;pale yellowish brown_10YR 6/2_30 To very pale orange_10YR 8/2_29
Porosity :Pin Point Vugs,Low Permeability
Dolomite Properties:90-100% ALTERED;Undetermined GRAIN SIZE : Microcrystalline RANGE :Cryptocrystalline To Microcrystalline
Induration:Good
Cement:Dolomite
Accessory Minerals :Organics-<1%, Glauconite-<1%
Sediment Structures:Bioturbated, Mottled
Other Features :High Recrystallization
Sample Type :Core

690 690.2 Rock Type :Peat;black_N1_83
Porosity :Intergranular
Induration:Moderate
Cement:Organic Matrix
Accessory Minerals :Silt Size Dolomite-5%
Sediment Structures:
Other Features :
Sample Type :Core

690.2 691.4 Rock Type :Dolostone;pale yellowish brown_10YR 6/2_30
Porosity :Pin Point Vugs,Low Permeability
Dolomite Properties:90-100% ALTERED;Undetermined GRAIN SIZE : Microcrystalline RANGE :Cryptocrystalline To Microcrystalline
Induration:Good
Cement:Dolomite
Accessory Minerals :Organics-<1%
Sediment Structures:Bioturbated
Other Features :High Recrystallization
Sample Type :Core

691.4 694.8 Rock Type :Dolostone;pale yellowish brown_10YR 6/2_30
Porosity :Pin Point Vugs,Moldic
Dolomite Properties:50-90% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Cryptocrystalline To Very Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-1%
Fossils:Fossil Molds, Benthic Foraminifera, Cones, Gastropods
General Fossils :Fossil Molds, Benthic Foraminifera, Cones, Gastropods
Sediment Structures:Bioturbated
Other Features :Medium Recrystallization
Sample Type :Core

694.8 696 Rock Type :Dolostone;moderate yellowish brown_10YR 5/4_34
Porosity :Moldic,Vugular,Pin Point Vugs
Dolomite Properties:50-90% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Quartz-3%, Organics-2%, Clay-1%
Fossils:Fossil Molds, Benthic Foraminifera
General Fossils :Fossil Molds, Benthic Foraminifera
Sediment Structures:
Other Features :Medium Recrystallization, Calcareous
Sample Type :Core

696 696.5 Rock Type :No Sample;moderate yellowish brown_10YR 5/4_34
Porosity :Moldic,Vugular,Pin Point Vugs
Dolomite Properties:50-90% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Quartz-3%, Organics-2%, Clay-1%
Fossils:Fossil Molds, Benthic Foraminifera
General Fossils :Fossil Molds, Benthic Foraminifera
Sediment Structures:
Other Features :Medium Recrystallization, Calcareous
Sample Type :Core

696.5 699.1 Rock Type :Dolostone;pale yellowish brown_10YR 6/2_30
Porosity :Pin Point Vugs,Moldic,Low Permeability
Dolomite Properties:50-90% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Good

Cement:Dolomite
Accessory Minerals :Organics-1%, Quartz-<1%
Fossils:Fossil Molds, Benthic Foraminifera, Miliolids
General Fossils :Fossil Molds, Benthic Foraminifera, Miliolids
Sediment Structures:
Index Fossils :Cushmania (Dictyoconus) americana (Avon Park Fm.)

Other Features :Calcareous, Medium Recrystallization
Sample Type :Core

699.1 700.6 Rock Type :Limestone;very pale orange_10YR 8/2_29 To pale yellowish brown_10YR 6/2_30
Porosity :Pin Point Vugs,Vugular
LimeStone Properties:GRAIN TYPE : Crystals,Biogenic GRAIN SIZE :Very Fine
Induration:Moderate
Cement:Sparry Calcite
Accessory Minerals :Organics-2%, Quartz-<1%
Fossils:Fossil Molds, Mollusks
General Fossils :Fossil Molds, Mollusks
Sediment Structures:Bioturbated, Bedded, Streaked
Other Features :High Recrystallization, Dolomitic
Sample Type :Core

700.6 701.6 Rock Type :Dolostone; To moderate yellowish brown_10YR 5/4_34
Porosity :Moldic,Pin Point Vugs,Intercrystalline
Dolomite Properties:50-90% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-5%
Fossils:Fossil Molds, Plant Remains
General Fossils :Fossil Molds, Plant Remains
Sediment Structures:Bioturbated
Other Features :Calcareous, Low Recrystallization
Sample Type :Core

701.6 705.5 Rock Type :Dolostone; To dark yellowish brown_10YR 4/2_31
Porosity :Vugular,Intercrystalline
Dolomite Properties:50-90% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-5%
Fossils:Fossil Molds, Plant Remains
General Fossils :Fossil Molds, Plant Remains
Sediment Structures:Bedded, Streaked, Bioturbated
Other Features :Calcareous, Medium Recrystallization
Sample Type :Core

705.5 706.3 Rock Type :Dolostone;pale yellowish brown_10YR 6/2_30
Porosity :Pin Point Vugs,Low Permeability
Dolomite Properties:90-100% ALTERED;Undetermined GRAIN SIZE : Microcrystalline RANGE :Cryptocrystalline To Microcrystalline
Induration:Good
Cement:Dolomite
Accessory Minerals :

Sediment Structures:
Other Features :High Recrystallization
Sample Type :Core

706.3 706.7 Rock Type :Peat;black_N1_83
Porosity :Intergranular
Induration:Poor
Cement:Organic Matrix
Accessory Minerals :
Sediment Structures:
Other Features :Partings
Sample Type :Core

706.7 708.6 Rock Type :Dolostone;dark yellowish brown_10YR 4/2_31 To pale yellowish brown_10YR 6/2_30
Porosity :Vugular,Pin Point Vugs
Dolomite Properties:90-100% ALTERED;Undetermined
GRAIN SIZE : Microcrystalline RANGE :Cryptocrystalline To Very Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :Organics-<1%, Quartz-<1%
Sediment Structures:Bedded
Other Features :High Recrystallization
Sample Type :Core

708.6 709.8 Rock Type :Dolostone;pale yellowish brown_10YR 6/2_30 To dark yellowish brown_10YR 4/2_31
Porosity :Vugular,Intercrystalline,Pin Point Vugs
Dolomite Properties:50-90% ALTERED;Undetermined
GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :Organics-5%, Quartz-2%
Sediment Structures:Streaked, Bioturbated, Burrowed
Other Features :Calcareous, Medium Recrystallization
Sample Type :Core

709.8 711.1 Rock Type :Dolostone;moderate yellowish brown_10YR 5/4_34 To very pale orange_10YR 8/2_29
Porosity :Pin Point Vugs,Intercrystalline
Dolomite Properties:50-90% ALTERED;Undetermined
GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :Organics-5%
Fossils:Plant Remains
General Fossils :Plant Remains
Sediment Structures:Bioturbated, Bedded
Other Features :Calcareous, Medium Recrystallization
Sample Type :Core

711.1 711.6 Rock Type :Peat;black_N1_83
Porosity :Intergranular
Induration:Poor
Cement:Organic Matrix
Accessory Minerals :Quartz-1%
Sediment Structures:
Other Features :
Sample Type :Core

711.6 712.2 Rock Type :Dolostone;pale yellowish brown_10YR 6/2_30 To dark yellowish brown_10YR 4/2_31
Porosity :Low Permeability,Vugular

Dolomite Properties:50-90% ALTERED;Undetermined GRAIN SIZE : Microcrystalline RANGE :Cryptocrystalline To Microcrystalline
Induration:Good
Cement:Dolomite
Accessory Minerals :Quartz-3%, Organics-1%
Sediment Structures:Streaked
Other Features :Calcareous, High Recrystallization, Variegated
Sample Type :Core

712.2 712.6 Rock Type :Dolostone; To moderate yellowish brown_10YR 5/4_34
Porosity :Intercrystalline,Pin Point Vugs
Dolomite Properties:50-90% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Quartz-1%, Organics-1%
Sediment Structures:Streaked
Other Features :Calcareous, High Recrystallization
Sample Type :Core

712.6 714.5 Rock Type :Dolostone;moderate yellowish brown_10YR 5/4_34 To dusky yellowish brown_10YR 2/2_32
Porosity :Intercrystalline,Low Permeability
Dolomite Properties:90-100% ALTERED;Undetermined GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :Chert-7%, Organics-3%
Fossils:Plant Remains
General Fossils :Plant Remains
Sediment Structures:Bedded
Other Features :Medium Recrystallization
Sample Type :Core

714.5 715.2 Rock Type :Dolostone; To dark yellowish brown_10YR 4/2_31
Porosity :Intercrystalline,Pin Point Vugs
Dolomite Properties:50-90% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-3%
Fossils:Plant Remains, Fossil Molds
General Fossils :Plant Remains, Fossil Molds
Sediment Structures:Streaked
Other Features :Calcareous, Medium Recrystallization
Sample Type :Core

715.2 716 Rock Type :No Sample;
Porosity :
Cement:
Accessory Minerals :
Sediment Structures:
Other Features :
Sample Type :Core

716 716.8 Rock Type :Dolostone;moderate yellowish brown_10YR 5/4_34 To dusky yellowish brown_10YR 2/2_32
Porosity :Pin Point Vugs,Intercrystalline
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine

Induration:Good
Cement:Dolomite
Accessory Minerals :Organics-7%
Fossils:Plant Remains
General Fossils :Plant Remains
Sediment Structures:
Other Features :Medium Recrystallization
Sample Type :Core

716.8 720 Rock Type :Dolostone;dark yellowish brown_10YR 4/2_31
Porosity :Moldic,Low Permeability
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Microcrystalline
Induration:Good
Cement:Dolomite
Accessory Minerals :Organics-2%
Fossils:Fossil Molds, Benthic Foraminifera, Plant Remains
General Fossils :Fossil Molds, Benthic Foraminifera, Plant Remains
Sediment Structures:
Other Features :Medium Recrystallization
Sample Type :Core

720 722.4 Rock Type :Peat;black_N1_83
Porosity :Intergranular
Induration:Poor
Cement:Organic Matrix
Accessory Minerals :Dolomite-1%, Gypsum-<1%
Sediment Structures:
Other Features :
Sample Type :Core

722.4 725.3 Rock Type :Dolostone;dark yellowish brown_10YR 4/2_31 To dusky yellowish brown_10YR 2/2_32
Porosity :Intercrystalline,Fracture
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :Organics-5%
Sediment Structures:Streaked
Other Features :Medium Recrystallization
Sample Type :Core

725.3 726.8 Rock Type :Dolostone;dark yellowish brown_10YR 4/2_31 To dusky yellowish brown_10YR 2/2_32
Porosity :Moldic,Fracture
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :Quartz-1%, Organics-<1%, Glauconite-<1%
Fossils:Fossil Molds
General Fossils :Fossil Molds
Sediment Structures:
Other Features :High Recrystallization
Sample Type :Core

726.8 727.7 Rock Type :Dolostone;moderate yellowish brown_10YR 5/4_34 To dark yellowish brown_10YR 4/2_31

Porosity :Pin Point Vugs,Intercrystalline
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Very Fine RANGE :Microcrystalline To Very Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-5%
Sediment Structures:Mottled
Other Features :High Recrystallization, Sucrosic
Sample Type :Core

727.7 729.5 Rock Type :Dolostone;pale yellowish brown_10YR 6/2_30 To dark yellowish brown_10YR 4/2_31
Porosity :Vugular,Fracture,Pin Point Vugs
Dolomite Properties:90-100% ALTERED;Undetermined GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Microcrystalline
Induration:Good
Cement:Dolomite
Accessory Minerals :Organics-3%, Quartz-2%
Sediment Structures:
Other Features :High Recrystallization, Variegated
Sample Type :Core

729.5 730 Rock Type :Dolostone;moderate yellowish brown_10YR 5/4_34 To dark yellowish brown_10YR 4/2_31
Porosity :Intercrystalline
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-1%, Quartz-<1%
Sediment Structures:
Other Features :Medium Recrystallization
Sample Type :Core

730 733.1 Rock Type :Dolostone;dark yellowish brown_10YR 4/2_31 To moderate yellowish brown_10YR 5/4_34
Porosity :Fracture,Vugular
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :Organics-3%
Sediment Structures:Bedded
Other Features :Medium Recrystallization, Weathered
Sample Type :Core

733.1 738.1 Rock Type :Dolostone;dark yellowish brown_10YR 4/2_31 To moderate yellowish brown_10YR 5/4_34
Porosity :Vugular,Moldic,Fracture
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :Quartz-<1%, Organics-<1%
Fossils:Fossil Molds
General Fossils :Fossil Molds
Sediment Structures:Interbedded
Other Features :Medium Recrystallization
Sample Type :Core

738.1 743.1 Rock Type :Dolostone;dark yellowish brown_10YR 4/2_31 To moderate yellowish brown_10YR 5/4_34
Porosity :Vugular,Moldic,Fracture

Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :Quartz-<1%, Organics-<1%
Fossils:Fossil Molds
General Fossils :Fossil Molds
Sediment Structures:Interbedded
Other Features :Medium Recrystallization
Sample Type :Core

743.1 744.5 Rock Type :Dolostone;dark yellowish brown_10YR 4/2_31 To moderate yellowish brown_10YR 5/4_34
Porosity :Vugular,Moldic,Fracture
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :Quartz-<1%, Organics-<1%
Fossils:Fossil Molds
General Fossils :Fossil Molds
Sediment Structures:Interbedded
Other Features :Medium Recrystallization
Sample Type :Core

744.5 746.6 Rock Type :Dolostone; To dark yellowish brown_10YR 4/2_31
Porosity :Intercrystalline,Vugular
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Very Fine RANGE :Microcrystalline To Very Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Quartz-<1%
Sediment Structures:
Other Features :Medium Recrystallization, Variegated
Sample Type :Core

746.6 747.5 Rock Type :Dolostone;dark yellowish brown_10YR 4/2_31 To pale yellowish brown_10YR 6/2_30
Porosity :Pin Point Vugs,Low Permeability,Fracture
Dolomite Properties:90-100% ALTERED;Undetermined GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Microcrystalline
Induration:Good
Cement:Dolomite
Accessory Minerals :
Sediment Structures:
Other Features :High Recrystallization
Sample Type :Core

747.5 748 Rock Type :Dolostone; To pale yellowish brown_10YR 6/2_30
Porosity :Intercrystalline,Moldic
Dolomite Properties:50-90% ALTERED;Subhedral GRAIN SIZE : Very Fine RANGE :Microcrystalline To Very Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-3%, Pyrite-<1%
Fossils:Fossil Molds, Plant Remains
General Fossils :Fossil Molds, Plant Remains
Sediment Structures:Streaked
Other Features :Medium Recrystallization
Sample Type :Core

748 749.2 Rock Type :Dolostone;moderate yellowish brown_10YR 5/4_34 To dusky yellowish brown_10YR 2/2_32
Porosity :Moldic,Intercrystalline
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :Organics-7%
Fossils:Fossil Molds, Plant Remains, Benthic Foraminifera
General Fossils :Fossil Molds, Plant Remains, Benthic Foraminifera
Sediment Structures:
Other Features :Medium Recrystallization
Sample Type :Core

749.2 749.5 Rock Type :Dolostone;moderate yellowish brown_10YR 5/4_34 To dusky yellowish brown_10YR 2/2_32
Porosity :Intercrystalline,Pin Point Vugs
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-7%
Fossils:Plant Remains
General Fossils :Plant Remains
Sediment Structures:Streaked
Other Features :Medium Recrystallization
Sample Type :Core

749.5 750 Rock Type :No Sample;
Porosity :
Cement:
Accessory Minerals :
Sediment Structures:
Other Features :
Sample Type :Core

750 750.5 Rock Type :Dolostone;moderate yellowish brown_10YR 5/4_34 To dusky yellowish brown_10YR 2/2_32
Porosity :Intercrystalline,Pin Point Vugs
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-7%
Fossils:Plant Remains
General Fossils :Plant Remains
Sediment Structures:Streaked
Other Features :Medium Recrystallization
Sample Type :Core

750.5 751.2 Rock Type :Dolostone;moderate yellowish brown_10YR 5/4_34 To dusky yellowish brown_10YR 2/2_32
Porosity :Moldic,Intercrystalline
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :Organics-5%
Fossils:Fossil Molds, Plant Remains, Benthic Foraminifera, Echinoid
General Fossils :Fossil Molds, Plant Remains,

Benthic Foraminifera, Echinoid
Sediment Structures:
Other Features :Medium Recrystallization
Sample Type :Core

751.2 752 Rock Type :Dolostone;moderate yellowish brown_10YR 5/4_34 To dusky yellowish brown_10YR 2/2_32
Porosity :Intercrystalline,Pin Point Vugs
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-7%, Quartz-1%
Fossils:Plant Remains
General Fossils :Plant Remains
Sediment Structures:Streaked
Other Features :Medium Recrystallization
Sample Type :Core

752 754.2 Rock Type :Dolostone;moderate yellowish brown_10YR 5/4_34 To dusky yellowish brown_10YR 2/2_32
Porosity :Moldic,Intercrystalline,Vugular
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :Organics-5%, Quartz-2%
Fossils:Fossil Molds, Benthic Foraminifera
General Fossils :Fossil Molds, Benthic Foraminifera
Sediment Structures:
Other Features :Medium Recrystallization
Sample Type :Core

754.2 756.7 Rock Type :Dolostone;pale yellowish brown_10YR 6/2_30 To dark yellowish brown_10YR 4/2_31
Porosity :Fracture,Intercrystalline
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :Organics-3%, Quartz-<1%
Sediment Structures:Interbedded, Mottled, Bioturbated
Other Features :Medium Recrystallization
Sample Type :Core

756.7 761.6 Rock Type :Dolostone;moderate yellowish brown_10YR 5/4_34
Porosity :Intercrystalline,Vugular,Pin Point Vugs
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :Organics-5%, Quartz-<1%
Sediment Structures:Streaked, Bedded
Other Features :Medium Recrystallization
Sample Type :Core

761.6 763.7 Rock Type :Dolostone;moderate yellowish brown_10YR 5/4_34 To dark yellowish brown_10YR 4/2_31
Porosity :Intercrystalline,Moldic,Fracture
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine

Induration:Good
Cement:Dolomite
Accessory Minerals :Organics-1%
Fossils:Fossil Molds
General Fossils :Fossil Molds
Sediment Structures:
Other Features :Medium Recrystallization
Sample Type :Core

763.7 765.4 Rock Type :Dolostone;dark yellowish brown_10YR 4/2_31 To moderate yellowish brown_10YR 5/4_34
Porosity :Intercrystalline,Vugular
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :
Sediment Structures:
Other Features :High Recrystallization, Variegated, Weathered
Sample Type :Core

765.4 766.6 Rock Type :Dolostone;moderate yellowish brown_10YR 5/4_34 To dark yellowish brown_10YR 4/2_31
Porosity :Intercrystalline,Vugular,Pin Point Vugs
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-7%
Sediment Structures:Streaked
Other Features :High Recrystallization
Sample Type :Core

766.6 767.7 Rock Type :Dolostone;moderate yellowish brown_10YR 5/4_34 To dark yellowish brown_10YR 4/2_31
Porosity :Moldic,Pin Point Vugs,Intercrystalline
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-5%
Fossils:Fossil Molds, Mollusks
General Fossils :Fossil Molds, Mollusks
Sediment Structures:Streaked
Other Features :Medium Recrystallization
Sample Type :Core

767.7 768.3 Rock Type :Dolostone;pale yellowish brown_10YR 6/2_30 To moderate yellowish brown_10YR 5/4_34
Porosity :Moldic,Pin Point Vugs
Dolomite Properties:90-100% ALTERED;Undetermined GRAIN SIZE : Microcrystalline RANGE :Cryptocrystalline To Microcrystalline
Induration:Good
Cement:Dolomite
Accessory Minerals :
Fossils:Fossil Molds
General Fossils :Fossil Molds
Sediment Structures:Bioturbated
Other Features :High Recrystallization
Sample Type :Core

768.3 769 Rock Type :Dolostone;moderate yellowish brown_10YR

5/4_34 To dark yellowish brown_10YR 4/2_31
Porosity :Intercrystalline,Pin Point Vugs
Dolomite Properties:50-90% ALTERED;Subhedral GRAIN SIZE : Very Fine RANGE :Microcrystalline To Very Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-3%
Sediment Structures:Bedded, Streaked
Other Features :Medium Recrystallization
Sample Type :Core

769 770.1 Rock Type :Dolostone;moderate yellowish brown_10YR 5/4_34 To dark yellowish brown_10YR 4/2_31
Porosity :Moldic,Vugular,Intercrystalline
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Quartz-2%, Organics-1%
Fossils:Fossil Molds
General Fossils :Fossil Molds
Sediment Structures:
Other Features :Medium Recrystallization
Sample Type :Core

770.1 772.3 Rock Type :Dolostone;moderate yellowish brown_10YR 5/4_34 To dark yellowish brown_10YR 4/2_31
Porosity :Moldic,Pin Point Vugs,Intercrystalline
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-2%
Fossils:Fossil Molds, Benthic Foraminifera
General Fossils :Fossil Molds, Benthic Foraminifera
Sediment Structures:Bedded
Index Fossils :Cushmania (Dictyoconus) americana (Avon Park Fm.)

Other Features :Medium Recrystallization
Sample Type :Core

772.3 774.3 Rock Type :Dolostone;moderate yellowish brown_10YR 5/4_34 To dark yellowish brown_10YR 4/2_31
Porosity :Intercrystalline,Pin Point Vugs,Moldic
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Very Fine RANGE :Microcrystalline To Very Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-3%
Fossils:Fossil Molds, Benthic Foraminifera
General Fossils :Fossil Molds, Benthic Foraminifera
Sediment Structures:Interbedded, Streaked, Laminated
Other Features :Medium Recrystallization
Sample Type :Core

774.3 776.1 Rock Type :Dolostone;moderate yellowish brown_10YR 5/4_34
Porosity :Moldic,Pin Point Vugs,Intercrystalline
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Moderate
Cement:Dolomite

Accessory Minerals :Organics-<1%, Quartz-<1%
Fossils:Fossil Molds, Benthic Foraminifera
General Fossils :Fossil Molds, Benthic Foraminifera
Sediment Structures:
Index Fossils :Cushmania (Dictyoconus) americana (Avon Park Fm.)

Other Features :Medium Recrystallization
Sample Type :Core

776.1 776.5 Rock Type :Dolostone;pale yellowish brown_10YR 6/2_30 To medium light gray_N6_79
Porosity :Pin Point Vugs,Moldic
Dolomite Properties:50-90% ALTERED;Undetermined GRAIN SIZE : Microcrystalline RANGE :Cryptocrystalline To Microcrystalline
Induration:Good
Cement:Dolomite
Accessory Minerals :Quartz-<1%
Fossils:Fossil Molds, Benthic Foraminifera
General Fossils :Fossil Molds, Benthic Foraminifera
Sediment Structures:
Other Features :High Recrystallization
Sample Type :Core

776.5 776.9 Rock Type :Dolostone;moderate yellowish brown_10YR 5/4_34 To pale yellowish brown_10YR 6/2_30
Porosity :Pin Point Vugs,Intercrystalline
Dolomite Properties:50-90% ALTERED;Undetermined GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-3%, Quartz-<1%
Sediment Structures:Streaked, Laminated
Other Features :Low Recrystallization
Sample Type :Core

776.9 780.4 Rock Type :Dolostone;moderate yellowish brown_10YR 5/4_34 To pale yellowish brown_10YR 6/2_30
Porosity :Moldic,Pin Point Vugs,Intercrystalline
Dolomite Properties:50-90% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-<1%, Quartz-1%
Fossils:Fossil Molds, Benthic Foraminifera, Gastropods
General Fossils :Fossil Molds, Benthic Foraminifera, Gastropods
Sediment Structures:Bioturbated
Other Features :Medium Recrystallization
Sample Type :Core

780.4 782.8 Rock Type :Dolostone; To moderate yellowish brown_10YR 5/4_34
Porosity :Intercrystalline,Pin Point Vugs
Dolomite Properties:50-90% ALTERED;Subhedral GRAIN SIZE : Very Fine RANGE :Microcrystalline To Very Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-2%
Fossils:Fossil Molds, Benthic Foraminifera
General Fossils :Fossil Molds, Benthic Foraminifera
Sediment Structures:Streaked

Other Features :High Recrystallization, Slicken-sides
Sample Type :Core

782.8 784.2 Rock Type :Dolostone;pale yellowish brown_10YR 6/2_30 To moderate yellowish brown_10YR 5/4_34
Porosity :Pin Point Vugs,Vugular
Dolomite Properties:50-90% ALTERED;Undetermined GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Microcrystalline
Induration:Good
Cement:Dolomite
Accessory Minerals :
Fossils:Fossil Molds
General Fossils :Fossil Molds
Sediment Structures:Bioturbated, Burrowed
Other Features :High Recrystallization
Sample Type :Core

784.2 784.6 Rock Type :Dolostone; To dark yellowish brown_10YR 4/2_31
Porosity :Intercrystalline
Dolomite Properties:50-90% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-5%
Fossils:Plant Remains
General Fossils :Plant Remains
Sediment Structures:Streaked, Laminated
Other Features :Medium Recrystallization
Sample Type :Core

784.6 787 Rock Type :Dolostone;moderate yellowish brown_10YR 5/4_34
Porosity :Moldic,Intercrystalline,Pin Point Vugs
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :Quartz-1%
Fossils:Fossil Molds, Benthic Foraminifera
General Fossils :Fossil Molds, Benthic Foraminifera
Sediment Structures:Bedded
Other Features :High Recrystallization
Sample Type :Core

787 787.4 Rock Type :Dolostone;very pale orange_10YR 8/2_29 To moderate yellowish brown_10YR 5/4_34
Porosity :Vugular,Pin Point Vugs,Intercrystalline
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :Clay-<1%
Fossils:Fossil Molds
General Fossils :Fossil Molds
Sediment Structures:Bioturbated, Burrowed
Other Features :Medium Recrystallization, Variegated
Sample Type :Core

787.4 790.2 Rock Type :Dolostone;pale yellowish brown_10YR 6/2_30 To very pale orange_10YR 8/2_29
Porosity :Moldic,Intercrystalline,Pin Point Vugs

Dolomite Properties:50-90% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Clay-1%, Organics-1%
Fossils:Fossil Molds, Benthic Foraminifera
General Fossils :Fossil Molds, Benthic Foraminifera
Sediment Structures:Bioturbated, Burrowed, Streaked, Interbedded
Other Features :Low Recrystallization
Sample Type :Core

790.2 790.5 Rock Type :Dolostone;pale yellowish brown_10YR 6/2_30 To black_N1_83
Porosity :Intercrystalline
Dolomite Properties:90-100% ALTERED;Undetermined GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Moderate
Cement:Dolomite, Organic Matrix
Accessory Minerals :Organics-30%
Fossils:Plant Remains
General Fossils :Plant Remains
Sediment Structures:Streaked
Other Features :
Sample Type :Core

790.5 792.4 Rock Type :Dolostone;pale yellowish brown_10YR 6/2_30 To moderate yellowish brown_10YR 5/4_34
Porosity :Intercrystalline,Low Permeability
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :Organics-5%
Fossils:Plant Remains
General Fossils :Plant Remains
Sediment Structures:Bioturbated
Other Features :Medium Recrystallization
Sample Type :Core

792.4 796.5 Rock Type :Dolostone;moderate yellowish brown_10YR 5/4_34 To dusky yellowish brown_10YR 2/2_32
Porosity :Intercrystalline
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-5%
Fossils:Plant Remains
General Fossils :Plant Remains
Sediment Structures:Streaked
Other Features :Low Recrystallization
Sample Type :Core

796.5 799.5 Rock Type :Dolostone;moderate yellowish brown_10YR 5/4_34 To very pale orange_10YR 8/2_29
Porosity :Moldic,Fracture
Dolomite Properties:90-100% ALTERED;Undetermined GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :
Fossils:Fossil Molds, Mollusks

General Fossils :Fossil Molds, Mollusks
Sediment Structures:Interbedded
Other Features :Medium Recrystallization
Sample Type :Core

799.5 800.4 Rock Type :Dolostone;moderate yellowish brown_10YR 5/4_34
Porosity :Intercrystalline,Vugular
Dolomite Properties:50-90% ALTERED;Subhedral GRAIN SIZE : Very Fine RANGE :Microcrystalline To Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-1%
Sediment Structures:Bedded
Other Features :High Recrystallization
Sample Type :Core

800.4 805.4 Rock Type :Dolostone;moderate yellowish brown_10YR 5/4_34
Porosity :Moldic,Vugular
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :Organics-1%, Quartz-2%
Fossils:Fossil Molds, Benthic Foraminifera, Mollusks, Plant Remains
General Fossils :Fossil Molds, Benthic Foraminifera, Mollusks, Plant Remains
Sediment Structures:
Other Features :Medium Recrystallization
Sample Type :Core

805.4 806.5 Rock Type :Dolostone;moderate yellowish brown_10YR 5/4_34
Porosity :Moldic,Vugular
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :Organics-1%, Quartz-2%
Fossils:Fossil Molds, Benthic Foraminifera, Mollusks, Plant Remains
General Fossils :Fossil Molds, Benthic Foraminifera, Mollusks, Plant Remains
Sediment Structures:
Other Features :Medium Recrystallization
Sample Type :Core

806.5 808.1 Rock Type :Dolostone;moderate yellowish brown_10YR 5/4_34 To dark yellowish brown_10YR 4/2_31
Porosity :Moldic
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :Organics-<1%
Fossils:Fossil Molds, Benthic Foraminifera
General Fossils :Fossil Molds, Benthic Foraminifera
Sediment Structures:
Other Features :Medium Recrystallization
Sample Type :Core

808.1 812.4 Rock Type :Dolostone;moderate yellowish brown_10YR 5/4_34 To dusky yellowish brown_10YR 2/2_32
Porosity :Intercrystalline,Moldic,Pin Point Vugs
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Very Fine RANGE :Microcrystalline To Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-2%
Fossils:Fossil Molds, Benthic Foraminifera
General Fossils :Fossil Molds, Benthic Foraminifera
Sediment Structures:
Other Features :Medium Recrystallization, Variegated
Sample Type :Core

812.4 813.1 Rock Type :Dolostone;dark yellowish brown_10YR 4/2_31 To dusky yellowish brown_10YR 2/2_32
Porosity :Moldic
Dolomite Properties:90-100% ALTERED;Anhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Microcrystalline
Induration:Good
Cement:Dolomite
Accessory Minerals :Organics-7%
Fossils:Fossil Molds, Benthic Foraminifera
General Fossils :Fossil Molds, Benthic Foraminifera
Sediment Structures:Streaked
Other Features :High Recrystallization
Sample Type :Core

813.1 814 Rock Type :Dolostone;moderate yellowish brown_10YR 5/4_34 To dark yellowish brown_10YR 4/2_31
Porosity :Intercrystalline,Moldic
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-5%
Fossils:Fossil Molds
General Fossils :Fossil Molds
Sediment Structures:Streaked
Other Features :High Recrystallization
Sample Type :Core

814 814.9 Rock Type :Dolostone;dark yellowish brown_10YR 4/2_31 To moderate yellowish brown_10YR 5/4_34
Porosity :Intercrystalline,Moldic
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :Organics-3%
Fossils:Fossil Molds, Benthic Foraminifera
General Fossils :Fossil Molds, Benthic Foraminifera
Sediment Structures:
Other Features :Medium Recrystallization
Sample Type :Core

814.9 815.5 Rock Type :Dolostone;moderate yellowish brown_10YR 5/4_34 To dark yellowish brown_10YR 4/2_31
Porosity :Intercrystalline,Moldic
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Fine
Induration:Moderate
Cement:Dolomite

Accessory Minerals :Organics-5%
Fossils:Fossil Molds
General Fossils :Fossil Molds
Sediment Structures:Streaked
Other Features :High Recrystallization
Sample Type :Core

815.5 815.8 Rock Type :Dolostone;dark yellowish brown_10YR 4/2_31 To dusky yellowish brown_10YR 2/2_32
Porosity :Intercrystalline,Fracture
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Very Fine RANGE :Very Fine To Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-7%
Sediment Structures:Streaked
Other Features :Medium Recrystallization, Muddy
Sample Type :Core

815.8 816.8 Rock Type :Dolostone;dark yellowish brown_10YR 4/2_31 To moderate yellowish brown_10YR 5/4_34
Porosity :Intercrystalline,Moldic,Vugular
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :Organics-2%
Fossils:Fossil Molds, Benthic Foraminifera
General Fossils :Fossil Molds, Benthic Foraminifera
Sediment Structures:
Other Features :Medium Recrystallization
Sample Type :Core

816.8 817.1 Rock Type :Dolostone;moderate yellowish brown_10YR 5/4_34 To dark yellowish brown_10YR 4/2_31
Porosity :Intercrystalline,Moldic
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-3%
Fossils:Fossil Molds
General Fossils :Fossil Molds
Sediment Structures:Streaked
Other Features :High Recrystallization
Sample Type :Core

817.1 818.7 Rock Type :Dolostone;dark yellowish brown_10YR 4/2_31 To dusky yellowish brown_10YR 2/2_32
Porosity :Moldic,Intercrystalline
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Very Fine RANGE :Microcrystalline To Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :Organics-3%
Fossils:Fossil Molds, Benthic Foraminifera
General Fossils :Fossil Molds, Benthic Foraminifera
Sediment Structures:
Other Features :High Recrystallization
Sample Type :Core

818.7 823.7 Rock Type :Dolostone;dark yellowish brown_10YR 4/2_31 To black_N1_83

Porosity :Moldic,Low Permeability
Dolomite Properties:90-100% ALTERED;Undetermined GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :Peat-30%, Gypsum-<1%
Fossils:Fossil Molds, Gastropods
General Fossils :Fossil Molds, Gastropods
Sediment Structures:Interbedded
Other Features :High Recrystallization
Sample Type :Core

823.7 824.7 Rock Type :Dolostone;dark yellowish brown_10YR 4/2_31 To black_N1_83
Porosity :Moldic,Low Permeability
Dolomite Properties:90-100% ALTERED;Undetermined GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :Peat-30%, Gypsum-<1%
Fossils:Fossil Molds, Gastropods
General Fossils :Fossil Molds, Gastropods
Sediment Structures:Interbedded
Other Features :High Recrystallization
Sample Type :Core

824.7 826.3 Rock Type :Dolostone;dark yellowish brown_10YR 4/2_31 To moderate yellowish brown_10YR 5/4_34
Porosity :Pin Point Vugs,Intercrystalline
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :Quartz-<1%
Sediment Structures:
Other Features :High Recrystallization
Sample Type :Core

826.3 831.3 Rock Type :Dolostone;dark yellowish brown_10YR 4/2_31 To moderate yellowish brown_10YR 5/4_34
Porosity :Intercrystalline,Vugular
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Very Fine RANGE :Very Fine To Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Quartz-<1%, Organics-<1%
Sediment Structures:
Other Features :High Recrystallization, Sucrosic
Sample Type :Core

831.3 835 Rock Type :Dolostone;dark yellowish brown_10YR 4/2_31 To moderate yellowish brown_10YR 5/4_34
Porosity :Intercrystalline,Vugular
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Very Fine RANGE :Very Fine To Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Quartz-<1%, Organics-<1%
Sediment Structures:
Other Features :High Recrystallization, Sucrosic
Sample Type :Core

835 840 Rock Type :Dolostone;dark yellowish brown_10YR

4/2_31 To moderate yellowish brown_10YR 5/4_34
Porosity :Intercrystalline,Vugular
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Very Fine RANGE :Very Fine To Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-2%
Sediment Structures:Streaked, Laminated
Other Features :High Recrystallization, Sucrosic
Sample Type :Core

840 845.1 Rock Type :Dolostone;dark yellowish brown_10YR 4/2_31 To moderate yellowish brown_10YR 5/4_34
Porosity :Intercrystalline,Pin Point Vugs
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Very Fine RANGE :Very Fine To Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-1%
Sediment Structures:Streaked
Other Features :High Recrystallization, Sucrosic
Sample Type :Core

845.1 846.1 Rock Type :Dolostone;dark yellowish brown_10YR 4/2_31 To dusky yellowish brown_10YR 2/2_32
Porosity :Intercrystalline,Pin Point Vugs,Moldic
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :Organics-5%
Fossils:Fossil Molds, Mollusks
General Fossils :Fossil Molds, Mollusks
Sediment Structures:Streaked
Other Features :High Recrystallization
Sample Type :Core

846.1 847.5 Rock Type :Dolostone;dark yellowish brown_10YR 4/2_31 To moderate yellowish brown_10YR 5/4_34
Porosity :Intercrystalline,Pin Point Vugs
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Very Fine RANGE :Very Fine To Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-<1%
Sediment Structures:Laminated, Bioturbated
Other Features :High Recrystallization, Sucrosic
Sample Type :Core

847.5 849.6 Rock Type :Dolostone;dark yellowish brown_10YR 4/2_31 To moderate yellowish brown_10YR 5/4_34
Porosity :Pin Point Vugs,Intercrystalline,Moldic
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Very Fine RANGE :Microcrystalline To Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :Organics-2%
Sediment Structures:Streaked, Laminated
Other Features :High Recrystallization
Sample Type :Core

849.6 852.9 Rock Type :Dolostone;dark yellowish brown_10YR 4/2_31 To moderate yellowish brown_10YR 5/4_34

Porosity :Intercrystalline,Pin Point Vugs,Vugular
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :Organics-1%
Fossils:Benthic Foraminifera
General Fossils :Benthic Foraminifera
Sediment Structures:Bioturbated
Index Fossils :Cushmania (Dictyoconus) americana (Avon Park Fm.)

Other Features :High Recrystallization
Sample Type :Core

852.9 857.9 Rock Type :Dolostone;dark yellowish brown_10YR 4/2_31
Porosity :Moldic,Intercrystalline,Pin Point Vugs
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-3%
Fossils:Fossil Molds
General Fossils :Fossil Molds
Sediment Structures:Interbedded, Streaked
Other Features :High Recrystallization
Sample Type :Core

857.9 859.7 Rock Type :Dolostone;dark yellowish brown_10YR 4/2_31
Porosity :Moldic,Intercrystalline,Pin Point Vugs
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-3%
Fossils:Fossil Molds
General Fossils :Fossil Molds
Sediment Structures:Interbedded, Streaked
Other Features :High Recrystallization
Sample Type :Core

859.7 861.6 Rock Type :Dolostone;dark yellowish brown_10YR 4/2_31
Porosity :Moldic,Intercrystalline,Pin Point Vugs
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :Organics-1%
Fossils:Fossil Molds, Benthic Foraminifera
General Fossils :Fossil Molds, Benthic Foraminifera
Sediment Structures:
Other Features :High Recrystallization, Variegated
Sample Type :Core

861.6 861.8 Rock Type :Dolostone; To dark yellowish brown_10YR 4/2_31
Porosity :Intercrystalline
Dolomite Properties:50-90% ALTERED;Subhedral GRAIN SIZE : Very Fine RANGE :Microcrystalline To Fine
Induration:Moderate

Cement:Dolomite
Accessory Minerals :Organics-2%, Quartz-<1%
Sediment Structures:Streaked
Other Features :Medium Recrystallization
Sample Type :Core

861.8 865 Rock Type :Dolostone;moderate yellowish brown_10YR 5/4_34 To dark yellowish brown_10YR 4/2_31
Porosity :Intercrystalline,Fracture,Vugular
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Very Fine RANGE :Microcrystalline To Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-<1%, Quartz-<1%, Glauconite-<1%
Fossils:Echinoid
General Fossils :Echinoid
Sediment Structures:Interbedded
Other Features :High Recrystallization
Sample Type :Core

865 867.6 Rock Type :Dolostone;moderate yellowish brown_10YR 5/4_34 To dark yellowish brown_10YR 4/2_31
Porosity :Intercrystalline,Moldic,Pin Point Vugs
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Very Fine RANGE :Microcrystalline To Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-1%, Quartz-<1%
Fossils:Fossil Molds, Echinoid
General Fossils :Fossil Molds, Echinoid
Sediment Structures:Interbedded, Streaked
Other Features :High Recrystallization
Sample Type :Core

867.6 870 Rock Type :Dolostone;moderate yellowish brown_10YR 5/4_34 To dark yellowish brown_10YR 4/2_31
Porosity :Moldic,Intercrystalline,Pin Point Vugs
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-<1%
Fossils:Fossil Molds, Echinoid
General Fossils :Fossil Molds, Echinoid
Sediment Structures:Interbedded
Other Features :High Recrystallization
Sample Type :Core

870 870.5 Rock Type :No Sample;
Porosity :
Cement:
Accessory Minerals :
Sediment Structures:
Other Features :
Sample Type :Core

870.5 870.7 Rock Type :Dolostone;dark yellowish brown_10YR 4/2_31
Porosity :Pin Point Vugs,Vugular
Dolomite Properties:90-100% ALTERED;Undetermined GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Microcrystalline
Induration:Good

Cement:Dolomite
Accessory Minerals :
Sediment Structures:
Other Features :High Recrystallization
Sample Type :Core

870.7 872.5 Rock Type :Dolostone;moderate yellowish brown_10YR 5/4_34 To dark yellowish brown_10YR 4/2_31
Porosity :Moldic,Intercrystalline,Pin Point Vugs
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Very Fine RANGE :Microcrystalline To Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-5%
Fossils:Echinoid, Benthic Foraminifera, Fossil Molds
General Fossils :Echinoid, Benthic Foraminifera, Fossil Molds
Sediment Structures:Interbedded, Streaked
Other Features :Medium Recrystallization
Sample Type :Core

872.5 873.5 Rock Type :Dolostone;dark yellowish brown_10YR 4/2_31 To moderate yellowish brown_10YR 5/4_34
Porosity :Moldic,Pin Point Vugs
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :Organics-<1%, Glauconite-<1%
Fossils:Fossil Molds, Benthic Foraminifera
General Fossils :Fossil Molds, Benthic Foraminifera
Sediment Structures:
Other Features :Medium Recrystallization
Sample Type :Core

873.5 875 Rock Type :Dolostone;moderate yellowish brown_10YR 5/4_34
Porosity :Intercrystalline,Pin Point Vugs,Possibly High Permeability
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Very Fine RANGE :Very Fine To Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-<1%
Fossils:Fossil Molds, Echinoid
General Fossils :Fossil Molds, Echinoid
Sediment Structures:
Other Features :High Recrystallization, Sucrosic
Sample Type :Core

875 880 Rock Type :Dolostone;moderate yellowish brown_10YR 5/4_34
Porosity :Intercrystalline,Pin Point Vugs
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Very Fine RANGE :Microcrystalline To Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-2%
Fossils:Fossil Molds
General Fossils :Fossil Molds
Sediment Structures:Streaked
Other Features :High Recrystallization, Sucrosic
Sample Type :Core

880 885.3 Rock Type :Dolostone;moderate yellowish brown_10YR 5/4_34
Porosity :Intercrystalline,Pin Point Vugs
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Very Fine RANGE :Microcrystalline To Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-2%
Fossils:Fossil Molds
General Fossils :Fossil Molds
Sediment Structures:Streaked
Other Features :High Recrystallization, Sucrosic
Sample Type :Core

885.3 886.5 Rock Type :Dolostone;dark yellowish brown_10YR 4/2_31 To moderate yellowish brown_10YR 5/4_34
Porosity :Intercrystalline,Vugular,Pin Point Vugs
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Very Fine RANGE :Microcrystalline To Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-7%
Fossils:Fossil Molds, Coral
General Fossils :Fossil Molds, Coral
Sediment Structures:Streaked
Other Features :High Recrystallization
Sample Type :Core

886.5 890.5 Rock Type :Dolostone;moderate yellowish brown_10YR 5/4_34 To dark yellowish brown_10YR 4/2_31
Porosity :Intercrystalline,Moldic
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Very Fine RANGE :Very Fine To Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-2%
Fossils:Fossil Molds
General Fossils :Fossil Molds
Sediment Structures:Bedded
Other Features :High Recrystallization, Sucrosic
Sample Type :Core

890.5 892.4 Rock Type :Dolostone;moderate yellowish brown_10YR 5/4_34 To dark yellowish brown_10YR 4/2_31
Porosity :Pin Point Vugs,Intercrystalline,Moldic
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Very Fine RANGE :Microcrystalline To Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-<1%
Fossils:Fossil Molds, Mollusks
General Fossils :Fossil Molds, Mollusks
Sediment Structures:Banded
Other Features :High Recrystallization
Sample Type :Core

892.4 895.5 Rock Type :Dolostone;dark yellowish brown_10YR 4/2_31 To moderate yellowish brown_10YR 5/4_34
Porosity :Pin Point Vugs,Intercrystalline
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Very Fine RANGE :Very Fine To Fine
Induration:Moderate

Cement:Dolomite
Accessory Minerals :Organics-<1%
Sediment Structures:Banded, Streaked
Other Features :High Recrystallization
Sample Type :Core

895.5 900.4 Rock Type :Dolostone;moderate yellowish brown_10YR 5/4_34 To dark yellowish brown_10YR 4/2_31
Porosity :Pin Point Vugs,Intercrystalline,Moldic
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Very Fine RANGE :Microcrystalline To Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-<1%
Fossils:Fossil Molds
General Fossils :Fossil Molds
Sediment Structures:
Other Features :High Recrystallization, Sucrosic
Sample Type :Core

900.4 905 Rock Type :Dolostone;moderate yellowish brown_10YR 5/4_34 To dark yellowish brown_10YR 4/2_31
Porosity :Pin Point Vugs,Intercrystalline,Moldic
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Very Fine RANGE :Microcrystalline To Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-<1%
Fossils:Fossil Molds
General Fossils :Fossil Molds
Sediment Structures:
Other Features :High Recrystallization, Sucrosic
Sample Type :Core

905 906 Rock Type :Dolostone;moderate yellowish brown_10YR 5/4_34 To dark yellowish brown_10YR 4/2_31
Porosity :Pin Point Vugs,Intercrystalline,Moldic
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Very Fine RANGE :Microcrystalline To Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-<1%
Fossils:Fossil Molds
General Fossils :Fossil Molds
Sediment Structures:
Other Features :High Recrystallization, Sucrosic
Sample Type :Core

906 910.6 Rock Type :Dolostone;moderate yellowish brown_10YR 5/4_34 To dark yellowish brown_10YR 4/2_31
Porosity :Intercrystalline,Moldic
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Very Fine RANGE :Microcrystalline To Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-3%
Sediment Structures:Interbedded, Streaked
Other Features :High Recrystallization, Sucrosic
Sample Type :Core

910.6 915.6 Rock Type :Dolostone;moderate yellowish brown_10YR 5/4_34
Porosity :Pin Point Vugs,Intercrystalline,Moldic

Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Very Fine RANGE :Microcrystalline To Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-<1%
Fossils:Fossil Molds
General Fossils :Fossil Molds
Sediment Structures:Bedded
Other Features :High Recrystallization, Sucrosic
Sample Type :Core

915.6 917.5 Rock Type :Dolostone;moderate yellowish brown_10YR 5/4_34
Porosity :Pin Point Vugs,Intercrystalline,Moldic
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Very Fine RANGE :Microcrystalline To Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-<1%
Fossils:Fossil Molds
General Fossils :Fossil Molds
Sediment Structures:Bedded
Other Features :High Recrystallization, Sucrosic
Sample Type :Core

917.5 918 Rock Type :No Sample;
Porosity :
Cement:
Accessory Minerals :
Sediment Structures:
Other Features :
Sample Type :Core

918 923 Rock Type :Dolostone;moderate yellowish brown_10YR 5/4_34 To dark yellowish brown_10YR 4/2_31
Porosity :Pin Point Vugs,Intercrystalline,Moldic
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Very Fine RANGE :Microcrystalline To Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-1%
Fossils:Fossil Molds
General Fossils :Fossil Molds
Sediment Structures:Bedded
Other Features :High Recrystallization, Sucrosic
Sample Type :Core

923 928 Rock Type :Dolostone;moderate yellowish brown_10YR 5/4_34 To dark yellowish brown_10YR 4/2_31
Porosity :Pin Point Vugs,Intercrystalline,Moldic
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Very Fine RANGE :Microcrystalline To Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-1%
Fossils:Fossil Molds
General Fossils :Fossil Molds
Sediment Structures:Bedded
Other Features :High Recrystallization, Sucrosic
Sample Type :Core

928 933 Rock Type :Dolostone;moderate yellowish brown_10YR 5/4_34 To dark yellowish brown_10YR 4/2_31

Porosity :Pin Point Vugs,Intercrystalline,Moldic
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Very Fine RANGE :Microcrystalline To Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-1%
Fossils:Fossil Molds
General Fossils :Fossil Molds
Sediment Structures:Bedded
Other Features :High Recrystallization, Sucrosic
Sample Type :Core

933 936.7 Rock Type :Dolostone;moderate yellowish brown_10YR 5/4_34 To dark yellowish brown_10YR 4/2_31
Porosity :Pin Point Vugs,Intercrystalline,Moldic
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Very Fine RANGE :Microcrystalline To Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-1%
Fossils:Fossil Molds
General Fossils :Fossil Molds
Sediment Structures:Bedded
Other Features :High Recrystallization, Sucrosic
Sample Type :Core

936.7 941.6 Rock Type :Dolostone;moderate yellowish brown_10YR 5/4_34 To dark yellowish brown_10YR 4/2_31
Porosity :Intercrystalline,Pin Point Vugs
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Very Fine RANGE :Microcrystalline To Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-3%
Sediment Structures:Laminated, Streaked, Banded
Other Features :High Recrystallization, Sucrosic
Sample Type :Core

941.6 943.4 Rock Type :Dolostone;dark yellowish brown_10YR 4/2_31 To moderate yellowish brown_10YR 5/4_34
Porosity :Pin Point Vugs,Intercrystalline
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Very Fine RANGE :Microcrystalline To Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :Organics-2%
Fossils:Fossil Molds
General Fossils :Fossil Molds
Sediment Structures:Streaked
Other Features :High Recrystallization
Sample Type :Core

943.4 948.3 Rock Type :Dolostone;dark yellowish brown_10YR 4/2_31 To moderate yellowish brown_10YR 5/4_34
Porosity :Intercrystalline,Pin Point Vugs
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Very Fine RANGE :Very Fine To Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-<1%
Fossils:Fossil Molds
General Fossils :Fossil Molds
Sediment Structures:

Other Features :High Recrystallization
Sample Type :Core

948.3 949.5 Rock Type :Dolostone;dark yellowish brown_10YR 4/2_31 To moderate yellowish brown_10YR 5/4_34
Porosity :Pin Point Vugs,Intercrystalline,Vugular
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :Organics-2%, Quartz-<1%
Fossils:Fossil Molds
General Fossils :Fossil Molds
Sediment Structures:Mottled, Streaked
Other Features :High Recrystallization
Sample Type :Core

949.5 952.4 Rock Type :Dolostone;moderate yellowish brown_10YR 5/4_34 To dark yellowish brown_10YR 4/2_31
Porosity :Moldic,Intercrystalline,Pin Point Vugs
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Very Fine RANGE :Microcrystalline To Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-<1%
Fossils:Fossil Molds
General Fossils :Fossil Molds
Sediment Structures:
Other Features :High Recrystallization
Sample Type :Core

952.4 953.8 Rock Type :Dolostone;moderate yellowish brown_10YR 5/4_34 To dark yellowish brown_10YR 4/2_31
Porosity :Intercrystalline,Moldic,Pin Point Vugs
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Very Fine RANGE :Microcrystalline To Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-1%
Fossils:Fossil Molds, Mollusks, Coral
General Fossils :Fossil Molds, Mollusks, Coral
Sediment Structures:
Other Features :High Recrystallization, Variegated
Sample Type :Core

953.8 956.4 Rock Type :Dolostone;dusky yellowish brown_10YR 2/2_32 To moderate yellowish brown_10YR 5/4_34
Porosity :Intercrystalline,Moldic,Pin Point Vugs
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Very Fine To Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :Organics-5%
Fossils:Fossil Molds, Gastropods, Benthic Foraminifera, Coral
General Fossils :Fossil Molds, Gastropods, Benthic Foraminifera, Coral
Sediment Structures:
Other Features :High Recrystallization
Sample Type :Core

956.4 957.1 Rock Type :Peat;black_N1_83 To dusky yellowish brown_10YR 2/2_32

Porosity :Intergranular
Induration:Poor
Cement:Organic Matrix
Accessory Minerals :Dolomite-3%
Sediment Structures:
Other Features :
Sample Type :Core

957.1 960.5 Rock Type :Dolostone;dusky yellowish brown_10YR 2/2_32 To moderate yellowish brown_10YR 5/4_34
Porosity :Intercrystalline,Vugular,Pin Point Vugs
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Very Fine RANGE :Microcrystalline To Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-5%
Fossils:Fossil Molds, Coral
General Fossils :Fossil Molds, Coral
Sediment Structures:Streaked
Other Features :High Recrystallization
Sample Type :Core

960.5 963.5 Rock Type :Dolostone;moderate yellowish brown_10YR 5/4_34 To dark yellowish brown_10YR 4/2_31
Porosity :Intercrystalline,Pin Point Vugs,Vugular
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Very Fine RANGE :Very Fine To Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-3%
Fossils:Fossil Molds, Coral
General Fossils :Fossil Molds, Coral
Sediment Structures:
Other Features :High Recrystallization, Sucrosic
Sample Type :Core

963.5 964 Rock Type :No Sample;
Porosity :
Cement:
Accessory Minerals :
Sediment Structures:
Other Features :
Sample Type :Core

964 965.3 Rock Type :Dolostone;moderate yellowish brown_10YR 5/4_34 To dark yellowish brown_10YR 4/2_31
Porosity :Intercrystalline,Pin Point Vugs,Vugular
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Very Fine RANGE :Very Fine To Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-3%
Fossils:Fossil Molds, Coral, Benthic Foraminifera
General Fossils :Fossil Molds, Coral, Benthic Foraminifera
Sediment Structures:
Other Features :High Recrystallization, Sucrosic
Sample Type :Core

965.3 965.6 Rock Type :Dolostone;moderate yellowish brown_10YR 5/4_34 To dusky yellowish brown_10YR 2/2_32
Porosity :Intercrystalline,Pin Point Vugs
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN

SIZE : Very Fine RANGE :Very Fine To Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-15%
Sediment Structures:Streaked
Other Features :High Recrystallization, Sucrosic
Sample Type :Core

965.6 966.5 Rock Type :Dolostone;dark yellowish brown_10YR 4/2_31 To moderate yellowish brown_10YR 5/4_34
Porosity :Intercrystalline,Pin Point Vugs
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Very Fine RANGE :Very Fine To Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-2%
Fossils:Fossil Molds
General Fossils :Fossil Molds
Sediment Structures:Mottled
Other Features :High Recrystallization, Sucrosic
Sample Type :Core

966.5 969 Rock Type :Dolostone;dark yellowish brown_10YR 4/2_31
Porosity :Intercrystalline,Moldic,Fracture
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Very Fine RANGE :Microcrystalline To Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :Organics-1%
Fossils:Fossil Molds, Coral
General Fossils :Fossil Molds, Coral
Sediment Structures:
Other Features :High Recrystallization
Sample Type :Core

969 971.3 Rock Type :Dolostone;dark yellowish brown_10YR 4/2_31 To dusky yellowish brown_10YR 2/2_32
Porosity :Intercrystalline,Fracture,Vugular
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Very Fine RANGE :Very Fine To Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-5%
Fossils:Fossil Molds, Coral, Echinoid
General Fossils :Fossil Molds, Coral, Echinoid
Sediment Structures:Bioturbated
Other Features :High Recrystallization, Sucrosic
Sample Type :Core

971.3 976.3 Rock Type :Dolostone;dark yellowish brown_10YR 4/2_31 To dusky yellowish brown_10YR 2/2_32
Porosity :Vugular,Intercrystalline,Fracture
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Very Fine RANGE :Microcrystalline To Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :Organics-1%, Calcite-1%
Fossils:Fossil Molds, Coral, Echinoid
General Fossils :Fossil Molds, Coral, Echinoid
Sediment Structures:Bedded
Other Features :High Recrystallization
Sample Type :Core

976.3 977.9 Rock Type :Dolostone;dark yellowish brown_10YR 4/2_31 To dusky yellowish brown_10YR 2/2_32
Porosity :Vugular,Intercrystalline,Fracture
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Very Fine RANGE :Microcrystalline To Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :Organics-1%, Calcite-1%
Fossils:Fossil Molds, Coral, Echinoid
General Fossils :Fossil Molds, Coral, Echinoid
Sediment Structures:Bedded
Other Features :High Recrystallization
Sample Type :Core

977.9 979.1 Rock Type :Dolostone;dark yellowish brown_10YR 4/2_31 To dusky yellowish brown_10YR 2/2_32
Porosity :Intercrystalline,Vugular
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Very Fine RANGE :Very Fine To Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-1%, Quartz-<1%
Fossils:Fossil Molds, Echinoid
General Fossils :Fossil Molds, Echinoid
Sediment Structures:
Other Features :High Recrystallization, Sucrosic
Sample Type :Core

979.1 981.2 Rock Type :Dolostone;pale yellowish brown_10YR 6/2_30 To dark yellowish brown_10YR 4/2_31
Porosity :Intercrystalline,Vugular
Dolomite Properties:50-90% ALTERED;Subhedral GRAIN SIZE : Fine RANGE :Very Fine To Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-7%
Fossils:Echinoid
General Fossils :Echinoid
Sediment Structures:Streaked, Bioturbated
Other Features :High Recrystallization, Sucrosic, Calcareous
Sample Type :Core

981.2 983.6 Rock Type :Dolostone;dark yellowish brown_10YR 4/2_31 To pale yellowish brown_10YR 6/2_30
Porosity :Intercrystalline,Fracture
Dolomite Properties:50-90% ALTERED;Subhedral GRAIN SIZE : Very Fine RANGE :Microcrystalline To Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :Organics-3%, Quartz-<1%
Fossils:Plant Remains, Fossil Molds
General Fossils :Plant Remains, Fossil Molds
Sediment Structures:Bedded
Other Features :High Recrystallization, Calcareous
Sample Type :Core

983.6 984 Rock Type :No Sample;
Porosity :
Cement:
Accessory Minerals :
Sediment Structures:

Other Features :
Sample Type :Core

984 985.5 Rock Type :Dolostone;moderate yellowish brown_10YR 5/4_34 To dark yellowish brown_10YR 4/2_31
Porosity :Intercrystalline
Dolomite Properties:50-90% ALTERED;Subhedral GRAIN SIZE : Fine RANGE :Microcrystalline To Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-2%, Quartz-<1%
Sediment Structures:Streaked, Bedded
Other Features :High Recrystallization, Sucrosic, Calcareous
Sample Type :Core

985.5 986.1 Rock Type :Dolostone;dark yellowish brown_10YR 4/2_31 To moderate yellowish brown_10YR 5/4_34
Porosity :Moldic,Intercrystalline,Low Permeability
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :Organics-2%
Fossils:Fossil Molds
General Fossils :Fossil Molds
Sediment Structures:
Other Features :High Recrystallization
Sample Type :Core

986.1 986.8 Rock Type :Dolostone;moderate yellowish brown_10YR 5/4_34
Porosity :Intercrystalline,Pin Point Vugs
Dolomite Properties:50-90% ALTERED;Subhedral GRAIN SIZE : Fine RANGE :Very Fine To Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-3%
Sediment Structures:Streaked
Other Features :High Recrystallization, Sucrosic, Calcareous
Sample Type :Core

986.8 987.1 Rock Type :Dolostone;dark yellowish brown_10YR 4/2_31 To moderate yellowish brown_10YR 5/4_34
Porosity :Intercrystalline,Moldic,Low Permeability
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :Organics-3%
Fossils:Fossil Molds, Plant Remains
General Fossils :Fossil Molds, Plant Remains
Sediment Structures:Streaked
Other Features :High Recrystallization, Calcareous
Sample Type :Core

987.1 989 Rock Type :Dolostone;moderate yellowish brown_10YR 5/4_34 To dark yellowish brown_10YR 4/2_31
Porosity :Intercrystalline,Pin Point Vugs
Dolomite Properties:50-90% ALTERED;Subhedral GRAIN SIZE : Fine RANGE :Very Fine To Fine
Induration:Moderate

Cement:Dolomite
Accessory Minerals :Organics-7%
Sediment Structures:Streaked, Laminated
Other Features :High Recrystallization, Sucrosic
Sample Type :Core

989 991 Rock Type :Dolostone;dark yellowish brown_10YR 4/2_31 To moderate yellowish brown_10YR 5/4_34
Porosity :Intercrystalline,Pin Point Vugs
Dolomite Properties:50-90% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :Organics-3%
Fossils:Fossil Molds
General Fossils :Fossil Molds
Sediment Structures:Interbedded, Streaked
Other Features :High Recrystallization, Sucrosic, Calcareous
Sample Type :Core

991 992.3 Rock Type :Limestone;dark yellowish brown_10YR 4/2_31 To pale yellowish brown_10YR 6/2_30
Porosity :Intercrystalline,Pin Point Vugs
LimeStone Properties:GRAIN TYPE : Crystals,Calcilutite GRAIN SIZE :Fine
Induration:Moderate
Cement:Sparry Calcite, Calcilutite Matrix
Accessory Minerals :Organics-5%
Sediment Structures:Laminated, Streaked
Other Features :High Recrystallization, Dolomitic
Sample Type :Core

992.3 992.6 Rock Type :Dolostone;dark yellowish brown_10YR 4/2_31 To moderate yellowish brown_10YR 5/4_34
Porosity :Intercrystalline,Pin Point Vugs,Low Permeability
Dolomite Properties:90-100% ALTERED;Anhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :Organics-3%
Sediment Structures:
Other Features :High Recrystallization
Sample Type :Core

992.6 994.4 Rock Type :Dolostone;moderate yellowish brown_10YR 5/4_34 To dark yellowish brown_10YR 4/2_31
Porosity :Intercrystalline,Pin Point Vugs
Dolomite Properties:50-90% ALTERED;Subhedral GRAIN SIZE : Very Fine RANGE :Microcrystalline To Very Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-3%
Sediment Structures:Streaked
Other Features :High Recrystallization, Calcareous
Sample Type :Core

994.4 995.6 Rock Type :Dolostone;moderate yellowish brown_10YR 5/4_34 To dark yellowish brown_10YR 4/2_31
Porosity :Intercrystalline,Pin Point Vugs,Fracture
Dolomite Properties:50-90% ALTERED;Subhedral GRAIN SIZE : Very Fine RANGE :Microcrystalline To Fine

Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-3%
Fossils:Fossil Molds
General Fossils :Fossil Molds
Sediment Structures:Interbedded, Streaked
Other Features :High Recrystallization
Sample Type :Core

995.6 997.6 Rock Type :Dolostone;moderate yellowish brown_10YR 5/4_34 To dark yellowish brown_10YR 4/2_31
Porosity :Intercrystalline,Moldic
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Very Fine RANGE :Microcrystalline To Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-1%
Fossils:Fossil Molds
General Fossils :Fossil Molds
Sediment Structures:
Other Features :High Recrystallization, Weathered
Sample Type :Core

997.6 999.1 Rock Type :Dolostone;moderate yellowish brown_10YR 5/4_34
Porosity :Intercrystalline,Pin Point Vugs
Dolomite Properties:50-90% ALTERED;Subhedral GRAIN SIZE : Very Fine RANGE :Very Fine To Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-2%, Limestone-3%
Sediment Structures:Streaked
Other Features :High Recrystallization, Calcareous
Sample Type :Core

999.1 1004.1 Rock Type :Dolostone;moderate yellowish brown_10YR 5/4_34 To dark yellowish brown_10YR 4/2_31
Porosity :Intercrystalline,Pin Point Vugs,Moldic
Dolomite Properties:50-90% ALTERED;Subhedral GRAIN SIZE : Very Fine RANGE :Microcrystalline To Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-1%
Fossils:Fossil Molds
General Fossils :Fossil Molds
Sediment Structures:Interbedded, Streaked
Other Features :High Recrystallization, Calcareous, Weathered
Sample Type :Core

1004.1 1006 Rock Type :Dolostone;moderate yellowish brown_10YR 5/4_34 To dark yellowish brown_10YR 4/2_31
Porosity :Intercrystalline,Pin Point Vugs,Moldic
Dolomite Properties:50-90% ALTERED;Subhedral GRAIN SIZE : Very Fine RANGE :Microcrystalline To Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-1%
Fossils:Fossil Molds
General Fossils :Fossil Molds
Sediment Structures:Interbedded, Streaked
Other Features :High Recrystallization, Calcareous, Weathered

Sample Type :Core

1006 1007.2 Rock Type :Dolostone;dark yellowish brown_10YR 4/2_31 To moderate yellowish brown_10YR 5/4_34
Porosity :Intercrystalline,Vugular,Pin Point Vugs
Dolomite Properties:90-100% ALTERED;Undetermined GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :Organics-<1%
Sediment Structures:
Other Features :High Recrystallization
Sample Type :Core

1007.2 1009.8 Rock Type :Dolostone;moderate yellowish brown_10YR 5/4_34 To dark yellowish brown_10YR 4/2_31
Porosity :Fracture,Intercrystalline,Vugular
Dolomite Properties:50-90% ALTERED;Undetermined GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-<1%
Sediment Structures:Interbedded
Other Features :High Recrystallization, Calcareous, Weathered
Sample Type :Core

1009.8 1010.8 Rock Type :Dolostone;dark yellowish brown_10YR 4/2_31 To moderate yellowish brown_10YR 5/4_34
Porosity :Vugular,Pin Point Vugs,Intercrystalline
Dolomite Properties:90-100% ALTERED;Undetermined GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :
Sediment Structures:
Other Features :High Recrystallization
Sample Type :Core

1010.8 1011.5 Rock Type :Dolostone;moderate yellowish brown_10YR 5/4_34
Porosity :Intercrystalline,Pin Point Vugs
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Very Fine RANGE :Microcrystalline To Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :
Sediment Structures:
Other Features :High Recrystallization, Sucrosic
Sample Type :Core

1011.5 1013.2 Rock Type :Dolostone;dark yellowish brown_10YR 4/2_31 To moderate yellowish brown_10YR 5/4_34
Porosity :Pin Point Vugs,Vugular,Intercrystalline
Dolomite Properties:90-100% ALTERED;Undetermined GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :
Sediment Structures:
Other Features :High Recrystallization
Sample Type :Core

1013.2 1014 Rock Type :Dolostone;moderate yellowish brown_10YR 5/4_34 To dusky yellowish brown_10YR 2/2_32
Porosity :Intercrystalline
Dolomite Properties:50-90% ALTERED;Undetermined GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Quartz-1%
Sediment Structures:Streaked
Other Features :Medium Recrystallization, Calcareous
Sample Type :Core

1014 1015.2 Rock Type :Dolostone;dark yellowish brown_10YR 4/2_31 To moderate yellowish brown_10YR 5/4_34
Porosity :Fracture,Moldic,Pin Point Vugs
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :
Fossils:Fossil Molds
General Fossils :Fossil Molds
Sediment Structures:
Other Features :High Recrystallization
Sample Type :Core

1015.2 1018.7 Rock Type :Dolostone;moderate yellowish brown_10YR 5/4_34 To dark yellowish brown_10YR 4/2_31
Porosity :Intercrystalline,Moldic
Dolomite Properties:50-90% ALTERED;Subhedral GRAIN SIZE : Very Fine RANGE :Microcrystalline To Very Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-2%
Fossils:Fossil Molds
General Fossils :Fossil Molds
Sediment Structures:Streaked, Bedded
Other Features :Medium Recrystallization, Calcareous
Sample Type :Core

1018.7 1019.3 Rock Type :Dolostone;dark yellowish brown_10YR 4/2_31 To moderate yellowish brown_10YR 5/4_34
Porosity :Fracture,Moldic
Dolomite Properties:90-100% ALTERED;Anhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :
Fossils:Fossil Molds
General Fossils :Fossil Molds
Sediment Structures:
Other Features :High Recrystallization
Sample Type :Core

1019.3 1019.9 Rock Type :Dolostone;moderate yellowish brown_10YR 5/4_34
Porosity :Intercrystalline
Dolomite Properties:50-90% ALTERED;Subhedral GRAIN SIZE : Very Fine RANGE :Microcrystalline To Very Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-2%
Sediment Structures:Streaked

Other Features :High Recrystallization, Sucrosic, Calcareous
Sample Type :Core

1019.9 1021 Rock Type :Dolostone;dark yellowish brown_10YR 4/2_31 To moderate yellowish brown_10YR 5/4_34
Porosity :Vugular,Fracture
Dolomite Properties:90-100% ALTERED;Undetermined GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :
Sediment Structures:
Other Features :High Recrystallization
Sample Type :Core

1021 1023.5 Rock Type :Dolostone;moderate yellowish brown_10YR 5/4_34 To dark yellowish brown_10YR 4/2_31
Porosity :Intercrystalline,Pin Point Vugs
Dolomite Properties:50-90% ALTERED;Subhedral GRAIN SIZE : Very Fine RANGE :Microcrystalline To Very Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-1%
Sediment Structures:
Other Features :Medium Recrystallization
Sample Type :Core

1023.5 1026.5 Rock Type :Dolostone;moderate yellowish brown_10YR 5/4_34 To dark yellowish brown_10YR 4/2_31
Porosity :Moldic,Fracture,Vugular
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Very Fine RANGE :Microcrystalline To Very Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :Organics-2%
Fossils:Fossil Molds
General Fossils :Fossil Molds
Sediment Structures:Bedded
Other Features :High Recrystallization
Sample Type :Core

1026.5 1027.3 Rock Type :Dolostone;moderate yellowish brown_10YR 5/4_34 To dark yellowish brown_10YR 4/2_31
Porosity :Fracture,Pin Point Vugs
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Very Fine RANGE :Microcrystalline To Very Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :Organics-1%
Sediment Structures:
Other Features :High Recrystallization
Sample Type :Core

1027.3 1027.9 Rock Type :Dolostone;dark yellowish brown_10YR 4/2_31 To moderate yellowish brown_10YR 5/4_34
Porosity :Fracture,Vugular
Dolomite Properties:90-100% ALTERED;Undetermined GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :
Sediment Structures:

Other Features :High Recrystallization, Weathered
Sample Type :Core

1027.9 1030.1 Rock Type :Dolostone;moderate yellowish brown_10YR 5/4_34 To medium gray_N5_80
Porosity :Fracture,Vugular,Pin Point Vugs
Dolomite Properties:50-90% ALTERED;Undetermined GRAIN SIZE : Microcrystalline RANGE :Cryptocrystalline To Very Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :
Sediment Structures:
Other Features :High Recrystallization
Sample Type :Core

1030.1 1032.4 Rock Type :Dolostone;moderate yellowish brown_10YR 5/4_34 To medium gray_N5_80
Porosity :Fracture,Pin Point Vugs
Dolomite Properties:50-90% ALTERED;Undetermined GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :
Fossils:Benthic Foraminifera
General Fossils :Benthic Foraminifera
Sediment Structures:
Other Features :High Recrystallization
Sample Type :Core

1032.4 1033.1 Rock Type :Dolostone;moderate yellowish brown_10YR 5/4_34 To dark yellowish brown_10YR 4/2_31
Porosity :Intercrystalline,Fracture,Pin Point Vugs
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Organics-<1%
Sediment Structures:
Other Features :High Recrystallization
Sample Type :Core

1033.1 1034.6 Rock Type :Dolostone;moderate yellowish brown_10YR 5/4_34 To medium gray_N5_80
Porosity :Vugular,Pin Point Vugs
Dolomite Properties:50-90% ALTERED;Undetermined GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :Organics-1%
Fossils:Benthic Foraminifera
General Fossils :Benthic Foraminifera
Sediment Structures:Streaked, Bedded
Other Features :High Recrystallization
Sample Type :Core

1034.6 1036.8 Rock Type :Dolostone;dark yellowish brown_10YR 4/2_31
Porosity :Pin Point Vugs,Intercrystalline,Moldic
Dolomite Properties:50-90% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :

Fossils:Fossil Molds, Benthic Foraminifera, Echinoid
General Fossils :Fossil Molds, Benthic Foraminifera, Echinoid
Sediment Structures:Bedded
Other Features :High Recrystallization
Sample Type :Core

1036.8 1037.4 Rock Type :Dolostone;moderate yellowish brown_10YR 5/4_34 To medium gray_N5_80
Porosity :Pin Point Vugs,Intercrystalline,Low Permeability
Dolomite Properties:50-90% ALTERED;Anhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :
Sediment Structures:
Other Features :High Recrystallization
Sample Type :Core

1037.4 1038 Rock Type :No Sample;
Porosity :
Cement:
Accessory Minerals :
Sediment Structures:
Other Features :
Sample Type :Core

1038 1038.5 Rock Type :Dolostone;moderate yellowish brown_10YR 5/4_34 To dark yellowish brown_10YR 4/2_31
Porosity :Fracture,Vugular,Pin Point Vugs
Dolomite Properties:90-100% ALTERED;Undetermined GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :
Fossils:Bryozoa
General Fossils :Bryozoa
Sediment Structures:
Other Features :High Recrystallization
Sample Type :Core

1038.5 1039.1 Rock Type :Dolostone;moderate yellowish brown_10YR 5/4_34 To dusky yellowish brown_10YR 2/2_32
Porosity :Intercrystalline,Pin Point Vugs,Vugular
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :
Sediment Structures:
Other Features :High Recrystallization, Variegated
Sample Type :Core

1039.1 1044.4 Rock Type :Dolostone;dark yellowish brown_10YR 4/2_31 To moderate yellowish brown_10YR 5/4_34
Porosity :Intercrystalline,Fracture,Vugular
Dolomite Properties:50-90% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :Organics-<1%
Fossils:Echinoid

General Fossils :Echinoid
Sediment Structures:Interbedded
Other Features :High Recrystallization
Sample Type :Core

1044.4 1046.3 Rock Type :Dolostone;dark yellowish brown_10YR 4/2_31 To moderate yellowish brown_10YR 5/4_34
Porosity :Vugular,Fracture,Pin Point Vugs
Dolomite Properties:90-100% ALTERED;Anhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :
Fossils:Echinoid
General Fossils :Echinoid
Sediment Structures:
Other Features :High Recrystallization
Sample Type :Core

1046.3 1047.9 Rock Type :Dolostone;moderate yellowish brown_10YR 5/4_34 To dark yellowish brown_10YR 4/2_31
Porosity :Pin Point Vugs,Fracture
Dolomite Properties:50-90% ALTERED;Undetermined GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :
Fossils:Echinoid
General Fossils :Echinoid
Sediment Structures:
Other Features :High Recrystallization, Variegated
Sample Type :Core

1047.9 1052.9 Rock Type :Dolostone;dark yellowish brown_10YR 4/2_31 To moderate yellowish brown_10YR 5/4_34
Porosity :Fracture,Vugular,Pin Point Vugs
Dolomite Properties:50-90% ALTERED;Undetermined GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :Organics-<1%
Fossils:Echinoid
General Fossils :Echinoid
Sediment Structures:
Other Features :High Recrystallization, Calcareous
Sample Type :Core

1052.9 1054.7 Rock Type :Dolostone;dark yellowish brown_10YR 4/2_31 To moderate yellowish brown_10YR 5/4_34
Porosity :Fracture,Vugular,Pin Point Vugs
Dolomite Properties:50-90% ALTERED;Undetermined GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :Organics-<1%
Fossils:Echinoid
General Fossils :Echinoid
Sediment Structures:
Other Features :High Recrystallization, Calcareous
Sample Type :Core

1054.7 1056.3 Rock Type :Dolostone;pale yellowish brown_10YR 6/2_30 To dark yellowish brown_10YR 4/2_31

Porosity :Pin Point Vugs,Vugular
Dolomite Properties:50-90% ALTERED;Undetermined
GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :
Fossils:Echinoid
General Fossils :Echinoid
Sediment Structures:
Other Features :High Recrystallization, Calcareous, Speckled
Sample Type :Core

1056.3 1056.6 Rock Type :Dolostone;moderate yellowish brown_10YR 5/4_34
Porosity :Intercrystalline,Possibly High Permeability
Dolomite Properties:50-90% ALTERED;Undetermined
GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :
Fossils:Echinoid
General Fossils :Echinoid
Sediment Structures:
Other Features :High Recrystallization
Sample Type :Core

1056.6 1058.2 Rock Type :Dolostone;dark yellowish brown_10YR 4/2_31 To moderate yellowish brown_10YR 5/4_34
Porosity :Intercrystalline,Intragranular,Pin Point Vugs
Dolomite Properties:50-90% ALTERED;Anhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :
Fossils:Echinoid, Mollusks
General Fossils :Echinoid, Mollusks
Sediment Structures:Bedded
Other Features :High Recrystallization
Sample Type :Core

1058.2 1058.6 Rock Type :Dolostone;moderate yellowish brown_10YR 5/4_34 To dark yellowish brown_10YR 4/2_31
Porosity :Intercrystalline,Pin Point Vugs
Dolomite Properties:50-90% ALTERED;Undetermined
GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :Organics-<1%
Fossils:Echinoid
General Fossils :Echinoid
Sediment Structures:Streaked
Other Features :High Recrystallization, Calcareous
Sample Type :Core

1058.6 1063.6 Rock Type :Dolostone;pale yellowish brown_10YR 6/2_30 To moderate yellowish brown_10YR 5/4_34
Porosity :Fracture,Vugular,Pin Point Vugs
Dolomite Properties:90-100% ALTERED;Undetermined
GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Good

Cement:Dolomite
Accessory Minerals :Organics-<1%
Fossils:Echinoid
General Fossils :Echinoid
Sediment Structures:Bedded
Other Features :High Recrystallization
Sample Type :Core

1063.6 1068.2 Rock Type :Dolostone;pale yellowish brown_10YR 6/2_30 To moderate yellowish brown_10YR 5/4_34
Porosity :Fracture,Vugular,Pin Point Vugs
Dolomite Properties:90-100% ALTERED;Undetermined GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :Organics-<1%
Fossils:Echinoid
General Fossils :Echinoid
Sediment Structures:Bedded
Other Features :High Recrystallization
Sample Type :Core

1068.2 1069.9 Rock Type :Dolostone;moderate yellowish brown_10YR 5/4_34
Porosity :Fracture,Pin Point Vugs,Vugular
Dolomite Properties:50-90% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :
Fossils:Echinoid
General Fossils :Echinoid
Sediment Structures:
Other Features :High Recrystallization, Calcareous
Sample Type :Core

1069.9 1075.2 Rock Type :Dolostone;pale yellowish brown_10YR 6/2_30 To moderate yellowish brown_10YR 5/4_34
Porosity :Pin Point Vugs,Fracture,Vugular
Dolomite Properties:50-90% ALTERED;Undetermined GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :Organics-<1%, Quartz-<1%
Sediment Structures:Bedded
Other Features :High Recrystallization, Calcareous
Sample Type :Core

1075.2 1076 Rock Type :Dolostone;moderate yellowish brown_10YR 5/4_34 To dark gray_N3_82
Porosity :Pin Point Vugs,Intercrystalline
Dolomite Properties:50-90% ALTERED;Undetermined GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :
Sediment Structures:
Other Features :High Recrystallization, Calcareous
Sample Type :Core

1076 1077.3 Rock Type :Dolostone;moderate yellowish brown_10YR 5/4_34 To dark gray_N3_82
Porosity :Pin Point Vugs,Fracture

Dolomite Properties:50-90% ALTERED;Undetermined GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :
Fossils:Echinoid
General Fossils :Echinoid
Sediment Structures:
Other Features :High Recrystallization, Calcareous, Speckled
Sample Type :Core

1077.3 1078.1 Rock Type :Dolostone;moderate yellowish brown_10YR 5/4_34 To dark yellowish brown_10YR 4/2_31
Porosity :Vugular,Pin Point Vugs,Intercrystalline
Dolomite Properties:50-90% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :
Sediment Structures:
Other Features :High Recrystallization, Calcareous
Sample Type :Core

1078.1 1083.6 Rock Type :Dolostone;moderate yellowish brown_10YR 5/4_34 To medium gray_N5_80
Porosity :Fracture,Pin Point Vugs,Vugular
Dolomite Properties:50-90% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :
Sediment Structures:Bedded
Other Features :High Recrystallization, Calcareous
Sample Type :Core

1083.6 1086 Rock Type :Dolostone;moderate yellowish brown_10YR 5/4_34 To dark gray_N3_82
Porosity :Pin Point Vugs,Fracture,Vugular
Dolomite Properties:50-90% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :Organics-<1%
Fossils:Echinoid
General Fossils :Echinoid
Sediment Structures:Streaked
Other Features :High Recrystallization, Calcareous
Sample Type :Core

1086 1087.6 Rock Type :Dolostone;moderate yellowish brown_10YR 5/4_34 To dark yellowish brown_10YR 4/2_31
Porosity :Pin Point Vugs,Fracture
Dolomite Properties:50-90% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :
Fossils:Echinoid
General Fossils :Echinoid
Sediment Structures:
Other Features :High Recrystallization, Calcareous
Sample Type :Core

1087.6 1088.6 Rock Type :Dolostone; To moderate yellowish brown_10YR 5/4_34
Porosity :Pin Point Vugs,Fracture,Intercrystalline
Dolomite Properties:50-90% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :Organics-<1%
Fossils:Echinoid
General Fossils :Echinoid
Sediment Structures:Streaked
Other Features :High Recrystallization, Calcareous
Sample Type :Core

1088.6 1091.2 Rock Type :Dolostone;moderate yellowish brown_10YR 5/4_34 To dark gray_N3_82
Porosity :Vugular,Fracture,Pin Point Vugs
Dolomite Properties:50-90% ALTERED;Undetermined GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :
Fossils:Echinoid, Bryozoa
General Fossils :Echinoid, Bryozoa
Sediment Structures:
Other Features :High Recrystallization, Calcareous
Sample Type :Core

1091.2 1092.9 Rock Type :Dolostone; To dark gray_N3_82
Porosity :Pin Point Vugs,Intercrystalline
Dolomite Properties:50-90% ALTERED;Anhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :
Fossils:Echinoid
General Fossils :Echinoid
Sediment Structures:
Other Features :High Recrystallization, Calcareous, Speckled
Sample Type :Core

1092.9 1093.9 Rock Type :Dolostone;pale yellowish brown_10YR 6/2_30 To medium light gray_N6_79
Porosity :Pin Point Vugs,Vugular
Dolomite Properties:50-90% ALTERED;Anhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :
Sediment Structures:
Other Features :High Recrystallization, Calcareous
Sample Type :Core

1093.9 1094.5 Rock Type :Dolostone;pale yellowish brown_10YR 6/2_30 To medium light gray_N6_79
Porosity :Intergranular,Intercrystalline
Dolomite Properties:50-90% ALTERED;Undetermined GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :

Fossils:Fossil Fragments, Bryozoa, Benthic Foraminifera, Echinoid
General Fossils :Fossil Fragments, Bryozoa, Benthic Foraminifera, Echinoid
Sediment Structures:
Other Features :High Recrystallization, Calcareous, Fossilferous
Sample Type :Core

1094.5 1099.5 Rock Type :Dolostone;moderate yellowish brown_10YR 5/4_34 To medium gray_N5_80
Porosity :Pin Point Vugs,Intergranular
Dolomite Properties:50-90% ALTERED;Anhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :
Fossils:Fossil Fragments, Echinoid, Bryozoa
General Fossils :Fossil Fragments, Echinoid, Bryozoa
Sediment Structures:
Other Features :High Recrystallization, Calcareous, Speckled
Sample Type :Core

1099.5 1101.6 Rock Type :Dolostone;moderate yellowish brown_10YR 5/4_34 To medium gray_N5_80
Porosity :Pin Point Vugs,Intergranular
Dolomite Properties:50-90% ALTERED;Anhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :
Fossils:Fossil Fragments, Echinoid, Bryozoa
General Fossils :Fossil Fragments, Echinoid, Bryozoa
Sediment Structures:
Other Features :High Recrystallization, Calcareous, Speckled
Sample Type :Core

1101.6 1102.8 Rock Type :Dolostone;moderate yellowish brown_10YR 5/4_34 To medium gray_N5_80
Porosity :Pin Point Vugs,Vugular
Dolomite Properties:50-90% ALTERED;Anhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :
Sediment Structures:
Other Features :High Recrystallization, Crystalline
Sample Type :Core

1102.8 1105.4 Rock Type :Dolostone; To pale yellowish brown_10YR 6/2_30
Porosity :Pin Point Vugs,Intergranular,Moldic
Dolomite Properties:50-90% ALTERED;Undetermined GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :
Fossils:Fossil Fragments, Echinoid, Bryozoa
General Fossils :Fossil Fragments, Echinoid, Bryozoa
Sediment Structures:
Other Features :High Recrystallization, Calcareous

Sample Type :Core

1105.4 1107.5 Rock Type :Dolostone;moderate yellowish brown_10YR 5/4_34
Porosity :Pin Point Vugs,Intergranular
Dolomite Properties:50-90% ALTERED;Undetermined
GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :
Fossils:Fossil Fragments, Echinoid
General Fossils :Fossil Fragments, Echinoid
Sediment Structures:
Other Features :High Recrystallization, Calcareous, Speckled
Sample Type :Core

1107.5 1112.5 Rock Type :Dolostone;pale yellowish brown_10YR 6/2_30 To medium light gray_N6_79
Porosity :Pin Point Vugs,Vugular,Moldic
Dolomite Properties:50-90% ALTERED;Undetermined
GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :
Fossils:Fossil Fragments, Echinoid, Bryozoa
General Fossils :Fossil Fragments, Echinoid, Bryozoa
Sediment Structures:Bedded
Other Features :High Recrystallization, Calcareous, Speckled
Sample Type :Core

1112.5 1114.4 Rock Type :Dolostone;pale yellowish brown_10YR 6/2_30 To medium light gray_N6_79
Porosity :Pin Point Vugs,Vugular,Moldic
Dolomite Properties:50-90% ALTERED;Undetermined
GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :
Fossils:Fossil Fragments, Echinoid, Bryozoa
General Fossils :Fossil Fragments, Echinoid, Bryozoa
Sediment Structures:Bedded
Other Features :High Recrystallization, Calcareous, Speckled
Sample Type :Core

1114.4 1116.5 Rock Type :Dolostone; To medium gray_N5_80
Porosity :Pin Point Vugs,Vugular,Intergranular
Dolomite Properties:50-90% ALTERED;Undetermined
GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :Quartz-<1%
Fossils:Fossil Fragments, Echinoid, Bryozoa
General Fossils :Fossil Fragments, Echinoid, Bryozoa
Sediment Structures:
Other Features :High Recrystallization, Calcareous
Sample Type :Core

1116.5 1121.5 Rock Type :Dolostone;pale yellowish brown_10YR 6/2_30 To medium gray_N5_80
Porosity :Vugular,Fracture,Pin Point Vugs

Dolomite Properties:50-90% ALTERED;Undetermined
GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :Quartz-<1%, Organics-<1%
Fossils:Echinoid, Gastropods
General Fossils :Echinoid, Gastropods
Sediment Structures:
Other Features :High Recrystallization, Calcareous
Sample Type :Core

1121.5 1126.8 Rock Type :Dolostone;pale yellowish brown_10YR 6/2_30 To medium gray_N5_80
Porosity :Vugular,Fracture,Pin Point Vugs
Dolomite Properties:50-90% ALTERED;Undetermined
GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :Quartz-<1%, Organics-<1%
Fossils:Echinoid, Gastropods
General Fossils :Echinoid, Gastropods
Sediment Structures:
Other Features :High Recrystallization, Calcareous
Sample Type :Core

1126.8 1127.5 Rock Type :No Sample;
Porosity :
Cement:
Accessory Minerals :
Sediment Structures:
Other Features :
Sample Type :Core

1127.5 1131.1 Rock Type :Dolostone;dark yellowish brown_10YR 4/2_31 To pale yellowish brown_10YR 6/2_30
Porosity :Vugular,Pin Point Vugs,Fracture
Dolomite Properties:50-90% ALTERED;Undetermined
GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :Quartz-<1%
Fossils:Echinoid
General Fossils :Echinoid
Sediment Structures:
Other Features :High Recrystallization, Calcareous
Sample Type :Core

1131.1 1136.1 Rock Type :Dolostone;moderate yellowish brown_10YR 5/4_34 To pale yellowish brown_10YR 6/2_30
Porosity :Vugular,Fracture,Pin Point Vugs
Dolomite Properties:50-90% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :Glauconite-<1%, Organics-<1%
Fossils:Echinoid, Fossil Molds
General Fossils :Echinoid, Fossil Molds
Sediment Structures:Bedded
Other Features :High Recrystallization, Calcareous
Sample Type :Core

1136.1 1140.2 Rock Type :Dolostone;moderate yellowish brown_10YR 5/4_34 To pale yellowish brown_10YR 6/2_30

Porosity :Vugular,Fracture,Pin Point Vugs
Dolomite Properties:50-90% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :Glauconite-<1%, Organics-<1%
Fossils:Echinoid, Fossil Molds
General Fossils :Echinoid, Fossil Molds
Sediment Structures:Bedded
Other Features :High Recrystallization, Calcareous
Sample Type :Core

1140.2 1143.6 Rock Type :Dolostone;medium gray_N5_80
Porosity :Vugular,Pin Point Vugs,Low Permeability
Dolomite Properties:50-90% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :Glauconite-<1%
Fossils:Echinoid
General Fossils :Echinoid
Sediment Structures:
Other Features :High Recrystallization, Calcareous
Sample Type :Core

1143.6 1147.6 Rock Type :Dolostone;moderate yellowish brown_10YR 5/4_34
Porosity :Vugular,Fracture,Pin Point Vugs
Dolomite Properties:50-90% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :Glauconite-<1%, Organics-<1%, Pyrite-<1%
Fossils:Echinoid
General Fossils :Echinoid
Sediment Structures:
Other Features :High Recrystallization, Calcareous, Speckled
Sample Type :Core

1147.6 1152.4 Rock Type :Dolostone;dark yellowish brown_10YR 4/2_31 To pale yellowish brown_10YR 6/2_30
Porosity :Fracture,Pin Point Vugs,Vugular
Dolomite Properties:50-90% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :
Fossils:Echinoid
General Fossils :Echinoid
Sediment Structures:
Other Features :High Recrystallization, Calcareous
Sample Type :Core

1152.4 1155.7 Rock Type :Dolostone;dark yellowish brown_10YR 4/2_31 To moderate yellowish brown_10YR 5/4_34
Porosity :Fracture,Pin Point Vugs,Vugular
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :

Sediment Structures:
Other Features :High Recrystallization
Sample Type :Core

1155.7 1160.7 Rock Type :Dolostone;dark yellowish brown_10YR 4/2_31
Porosity :Vugular,Pin Point Vugs
Dolomite Properties:90-100% ALTERED;Undetermined GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :
Sediment Structures:
Other Features :High Recrystallization
Sample Type :Core

1160.7 1162 Rock Type :Dolostone;dark yellowish brown_10YR 4/2_31
Porosity :Vugular,Pin Point Vugs
Dolomite Properties:90-100% ALTERED;Undetermined GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :
Sediment Structures:
Other Features :High Recrystallization
Sample Type :Core

1162 1162.6 Rock Type :No Sample;
Porosity :
Cement:
Accessory Minerals :
Sediment Structures:
Other Features :
Sample Type :Core

1162.6 1167.6 Rock Type :Dolostone;pale yellowish brown_10YR 6/2_30 To moderate yellowish brown_10YR 5/4_34
Porosity :Vugular,Low Permeability,Fracture
Dolomite Properties:50-90% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :
Sediment Structures:
Other Features :High Recrystallization, Crystalline
Sample Type :Core

1167.6 1168.2 Rock Type :Dolostone;pale yellowish brown_10YR 6/2_30 To moderate yellowish brown_10YR 5/4_34
Porosity :Vugular,Low Permeability,Fracture
Dolomite Properties:50-90% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :
Sediment Structures:
Other Features :High Recrystallization, Crystalline
Sample Type :Core

1168.2 1170.1 Rock Type :Dolostone;dark yellowish brown_10YR 4/2_31
Porosity :Fracture,Vugular

Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :
Sediment Structures:
Other Features :High Recrystallization, Crystalline
Sample Type :Core

1170.1 1173.5 Rock Type :Dolostone;pale yellowish brown_10YR 6/2_30 To moderate yellowish brown_10YR 5/4_34
Porosity :Vugular,Pin Point Vugs,Low Permeability
Dolomite Properties:50-90% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :Organics-<1%, Pyrite-<1%
Sediment Structures:
Other Features :High Recrystallization, Crystalline, Calcareous
Sample Type :Core

1173.5 1178.5 Rock Type :Dolostone;pale yellowish brown_10YR 6/2_30 To moderate yellowish brown_10YR 5/4_34
Porosity :Vugular,Fracture
Dolomite Properties:50-90% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :Quartz-<1%, Organics-<1%
Fossils:Echinoid
General Fossils :Echinoid
Sediment Structures:
Other Features :High Recrystallization, Calcareous
Sample Type :Core

1178.5 1180 Rock Type :Dolostone;pale yellowish brown_10YR 6/2_30 To moderate yellowish brown_10YR 5/4_34
Porosity :Vugular,Fracture
Dolomite Properties:50-90% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :Quartz-<1%, Organics-<1%
Fossils:Echinoid
General Fossils :Echinoid
Sediment Structures:
Other Features :High Recrystallization, Calcareous
Sample Type :Core

1180 1182.9 Rock Type :Dolostone;dark yellowish brown_10YR 4/2_31 To moderate yellowish brown_10YR 5/4_34
Porosity :Vugular,Fracture,Low Permeability
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :Quartz-<1%, Organics-<1%
Sediment Structures:
Other Features :High Recrystallization, Crystalline
Sample Type :Core

1182.9 1185.3 Rock Type :Dolostone;dark yellowish brown_10YR

4/2_31 To moderate yellowish brown_10YR 5/4_34
Porosity :Fracture,Vugular,Pin Point Vugs
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :Organics-<1%
Sediment Structures:
Other Features :High Recrystallization, Crystalline
Sample Type :Core

1185.3 1186.3 Rock Type :Dolostone; To moderate yellowish brown_10YR 5/4_34
Porosity :Intercrystalline,Pin Point Vugs
Dolomite Properties:50-90% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :Organics-<1%, Quartz-<1%
Sediment Structures:Bedded
Other Features :High Recrystallization, Calcareous
Sample Type :Core

1186.3 1190.4 Rock Type :Dolostone;pale yellowish brown_10YR 6/2_30 To dark yellowish brown_10YR 4/2_31
Porosity :Vugular,Fracture
Dolomite Properties:50-90% ALTERED;Undetermined GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :Quartz-<1%
Sediment Structures:
Other Features :High Recrystallization, Crystalline, Calcareous
Sample Type :Core

1190.4 1192.5 Rock Type :Dolostone;moderate yellowish brown_10YR 5/4_34 To dark yellowish brown_10YR 4/2_31
Porosity :Vugular,Pin Point Vugs
Dolomite Properties:50-90% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :Quartz-<1%
Sediment Structures:
Other Features :High Recrystallization
Sample Type :Core

1192.5 1197.5 Rock Type :Dolostone;moderate yellowish brown_10YR 5/4_34
Porosity :Vugular,Pin Point Vugs
Dolomite Properties:50-90% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :Quartz-<1%
Fossils:Fossil Fragments
General Fossils :Fossil Fragments
Sediment Structures:Bedded
Other Features :High Recrystallization
Sample Type :Core

1197.5 1198.3 Rock Type :Dolostone;moderate yellowish brown_10YR

5/4_34
Porosity :Vugular,Pin Point Vugs
Dolomite Properties:50-90% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :Quartz-<1%
Sediment Structures:Bedded
Other Features :High Recrystallization
Sample Type :Core

1198.3 1198.9 Rock Type :No Sample;
Porosity :
Cement:
Accessory Minerals :
Sediment Structures:
Other Features :
Sample Type :Core

1198.9 1202 Rock Type :Dolostone; To dark yellowish brown_10YR 4/2_31
Porosity :Intercrystalline,Pin Point Vugs
Dolomite Properties:50-90% ALTERED;Subhedral GRAIN SIZE : Very Fine RANGE :Very Fine To Fine
Induration:Moderate
Cement:Dolomite
Accessory Minerals :Quartz-1%, Organics-2%
Sediment Structures:Streaked
Other Features :High Recrystallization, Calcareous, Sucrosic
Sample Type :Core

1202 1207 Rock Type :Dolostone;dark yellowish brown_10YR 4/2_31 To moderate yellowish brown_10YR 5/4_34
Porosity :Vugular,Pin Point Vugs,Fracture
Dolomite Properties:50-90% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :Quartz-1%
Sediment Structures:Bedded
Other Features :High Recrystallization
Sample Type :Core

1207 1212 Rock Type :Dolostone;dark yellowish brown_10YR 4/2_31 To moderate yellowish brown_10YR 5/4_34
Porosity :Vugular,Pin Point Vugs,Fracture
Dolomite Properties:50-90% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :Quartz-1%
Sediment Structures:Bedded
Other Features :High Recrystallization
Sample Type :Core

1212 1217.4 Rock Type :Dolostone;dark yellowish brown_10YR 4/2_31 To moderate yellowish brown_10YR 5/4_34
Porosity :Vugular,Pin Point Vugs,Fracture
Dolomite Properties:50-90% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Good
Cement:Dolomite

Accessory Minerals :Quartz-<1%
Sediment Structures:Bedded
Other Features :High Recrystallization
Sample Type :Core

1217.4 1222.4 Rock Type :Dolostone;dark yellowish brown_10YR 4/2_31 To moderate yellowish brown_10YR 5/4_34
Porosity :Vugular,Pin Point Vugs,Fracture
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :Quartz-1%, Anhydrite-<1%
Sediment Structures:
Other Features :High Recrystallization
Sample Type :Core

1222.4 1224.5 Rock Type :Dolostone;dark yellowish brown_10YR 4/2_31 To moderate yellowish brown_10YR 5/4_34
Porosity :Vugular,Pin Point Vugs,Fracture
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :Quartz-1%, Anhydrite-<1%
Sediment Structures:
Other Features :High Recrystallization
Sample Type :Core

1224.5 1229 Rock Type :Dolostone;dark yellowish brown_10YR 4/2_31
Porosity :Pin Point Vugs,Vugular,Fracture
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :Quartz-2%, Organics-<1%, Anhydrite-<1%
Sediment Structures:
Other Features :High Recrystallization, Variegated
Sample Type :Core

1229 1232.2 Rock Type :Dolostone;dark yellowish brown_10YR 4/2_31
Porosity :Pin Point Vugs,Fracture
Dolomite Properties:90-100% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :Quartz-<1%, Organics-<1%, Anhydrite-<1%
Sediment Structures:
Other Features :High Recrystallization, Variegated
Sample Type :Core

1232.2 1233.6 Rock Type :Dolostone; To pale yellowish brown_10YR 6/2_30
Porosity :Pin Point Vugs,Fracture
Dolomite Properties:50-90% ALTERED;Subhedral GRAIN SIZE : Very Fine RANGE :Microcrystalline To Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :Organics-1%, Pyrite-<1%,

Glauconite-<1%, Quartz-<1%
Sediment Structures:Streaked
Other Features :High Recrystallization, Calcareous
Sample Type :Core

1233.6 1238.6 Rock Type :Dolostone;dark yellowish brown_10YR 4/2_31
Porosity :Pin Point Vugs,Fracture,Moldic
Dolomite Properties:50-90% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :Quartz-<1%, Organics-<1%
Fossils:Fossil Molds, Coral
General Fossils :Fossil Molds, Coral
Sediment Structures:
Other Features :High Recrystallization
Sample Type :Core

1238.6 1239.8 Rock Type :Dolostone;dark yellowish brown_10YR 4/2_31
Porosity :Pin Point Vugs,Fracture,Moldic
Dolomite Properties:50-90% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :Quartz-<1%, Organics-<1%
Fossils:Fossil Molds, Coral
General Fossils :Fossil Molds, Coral
Sediment Structures:
Other Features :High Recrystallization
Sample Type :Core

1239.8 1241.5 Rock Type :Dolostone;dark yellowish brown_10YR 4/2_31
Porosity :Vugular,Moldic,Pin Point Vugs
Dolomite Properties:50-90% ALTERED;Subhedral GRAIN SIZE : Microcrystalline RANGE :Microcrystalline To Very Fine
Induration:Good
Cement:Dolomite
Accessory Minerals :Quartz-1%, Pyrite-<1%, Anhydrite-<1%, Glauconite-<1%
Fossils:Fossil Molds
General Fossils :Fossil Molds
Sediment Structures:Bedded
Other Features :High Recrystallization
Sample Type :Core

1241.5 1250 Rock Type :No Sample;
Porosity :
Cement:
Accessory Minerals :
Sediment Structures:
Other Features :
Sample Type :Core

Attachment B

Packer Test Data TW-1

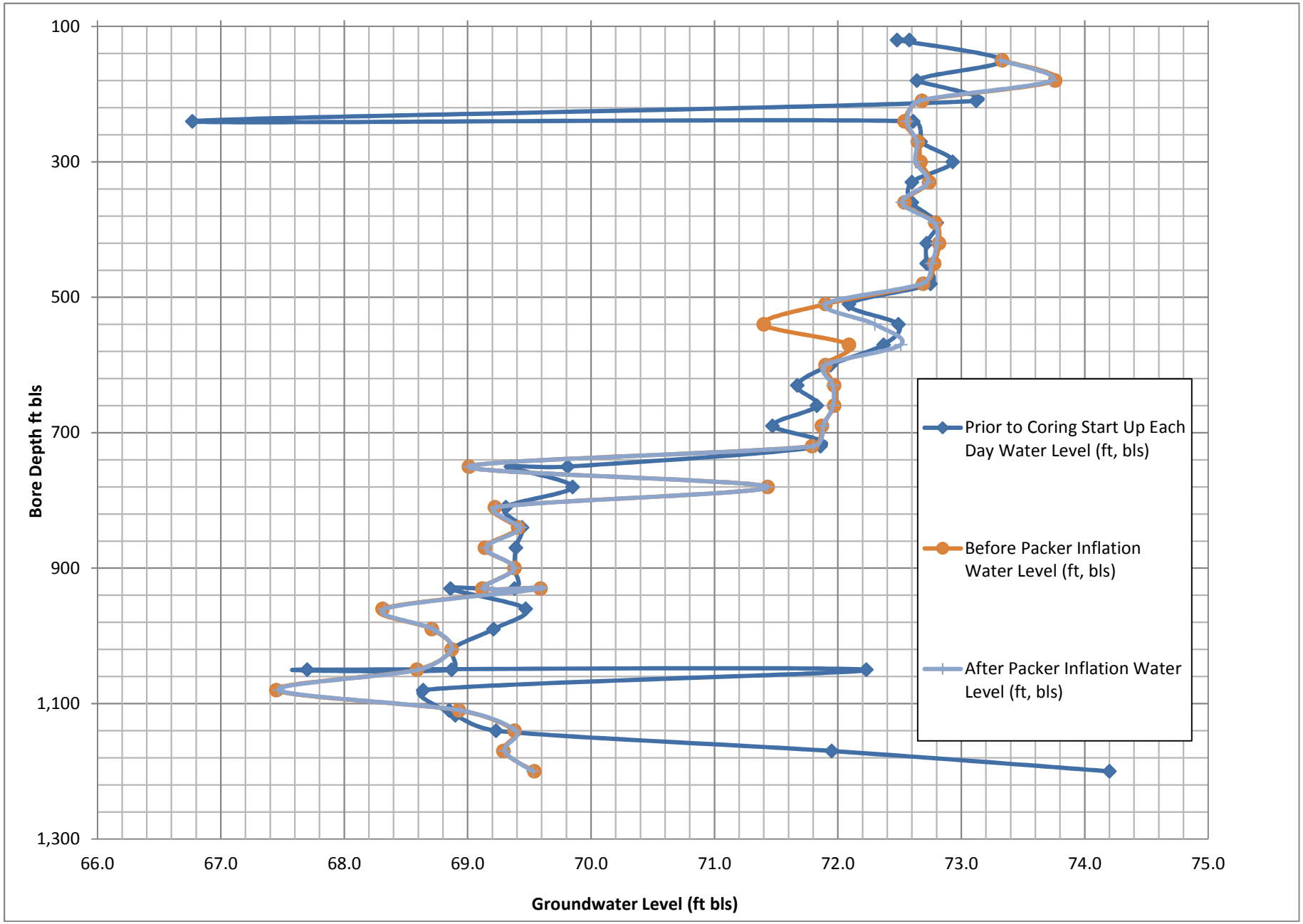


Figure B-1
Groundwater Levels Prior to Pumping
During Packer Testing of TW-1 (M-0796)

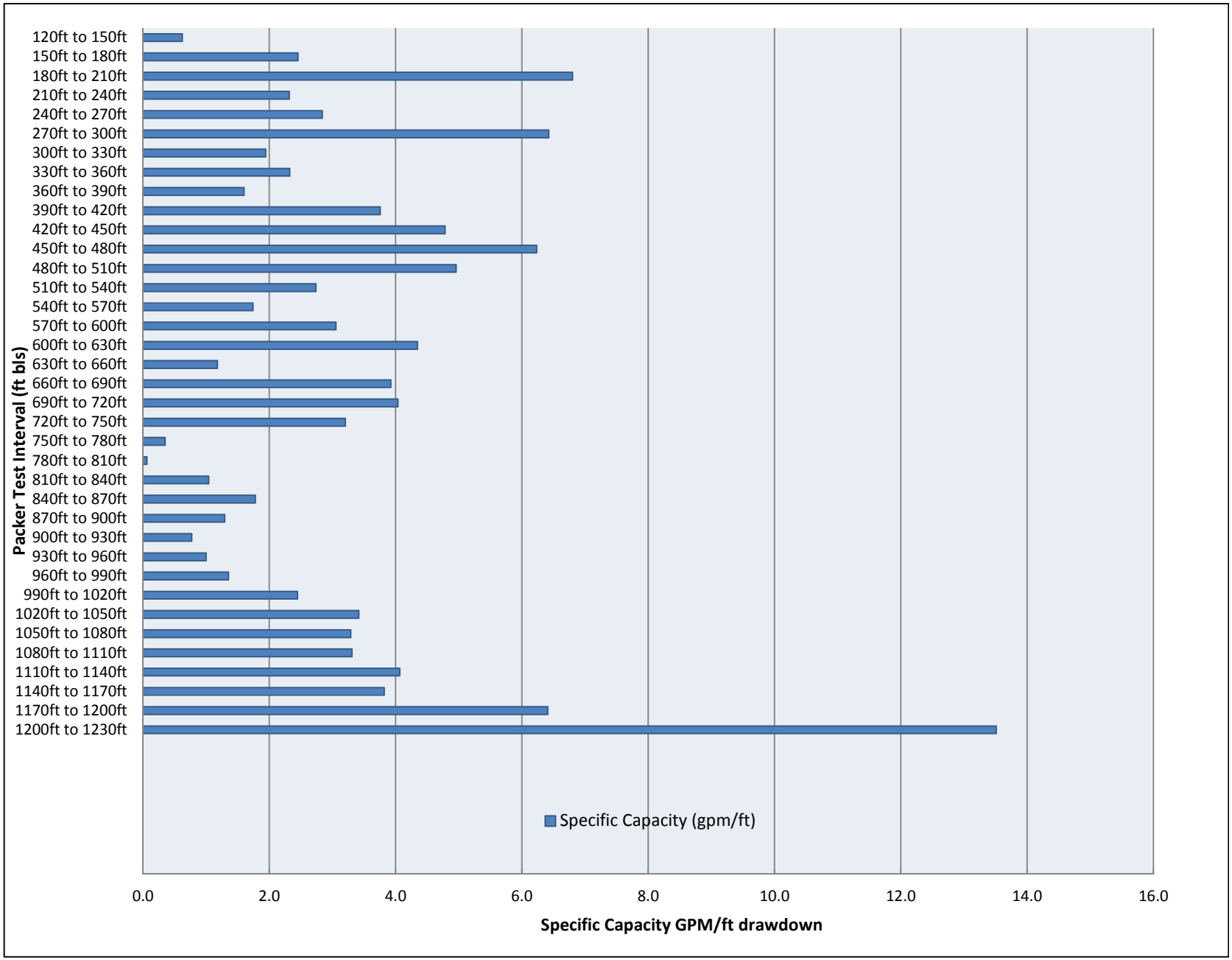


Figure B-2
Results of Specific Capacity Tests from Packer Testing During Drilling of TW-1 (M-0796)

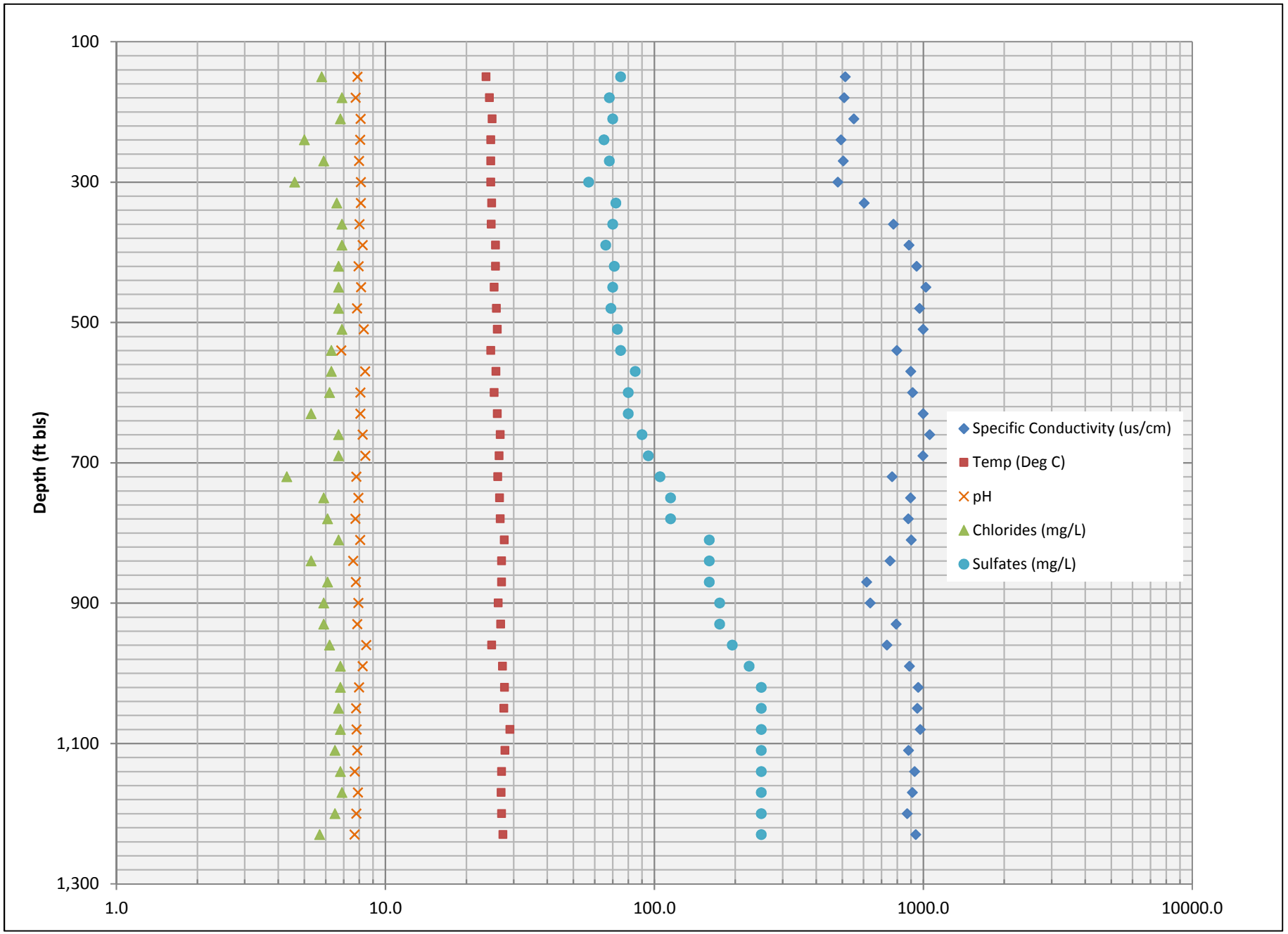


Figure B-3
Packer Test Water Quality vs. Depth for TW-1 (M-0796)

Attachment C

Groundwater Level Fluctuations

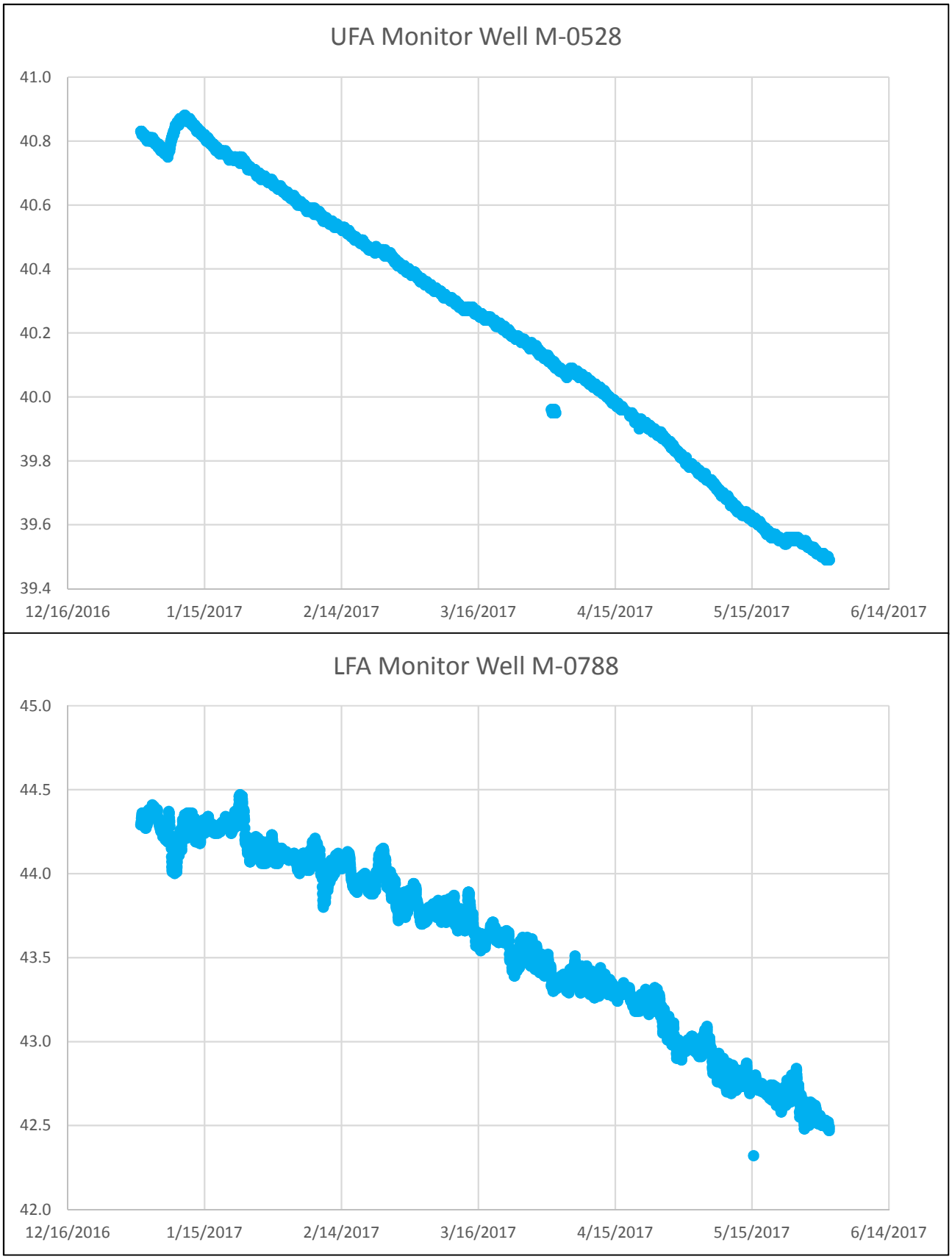
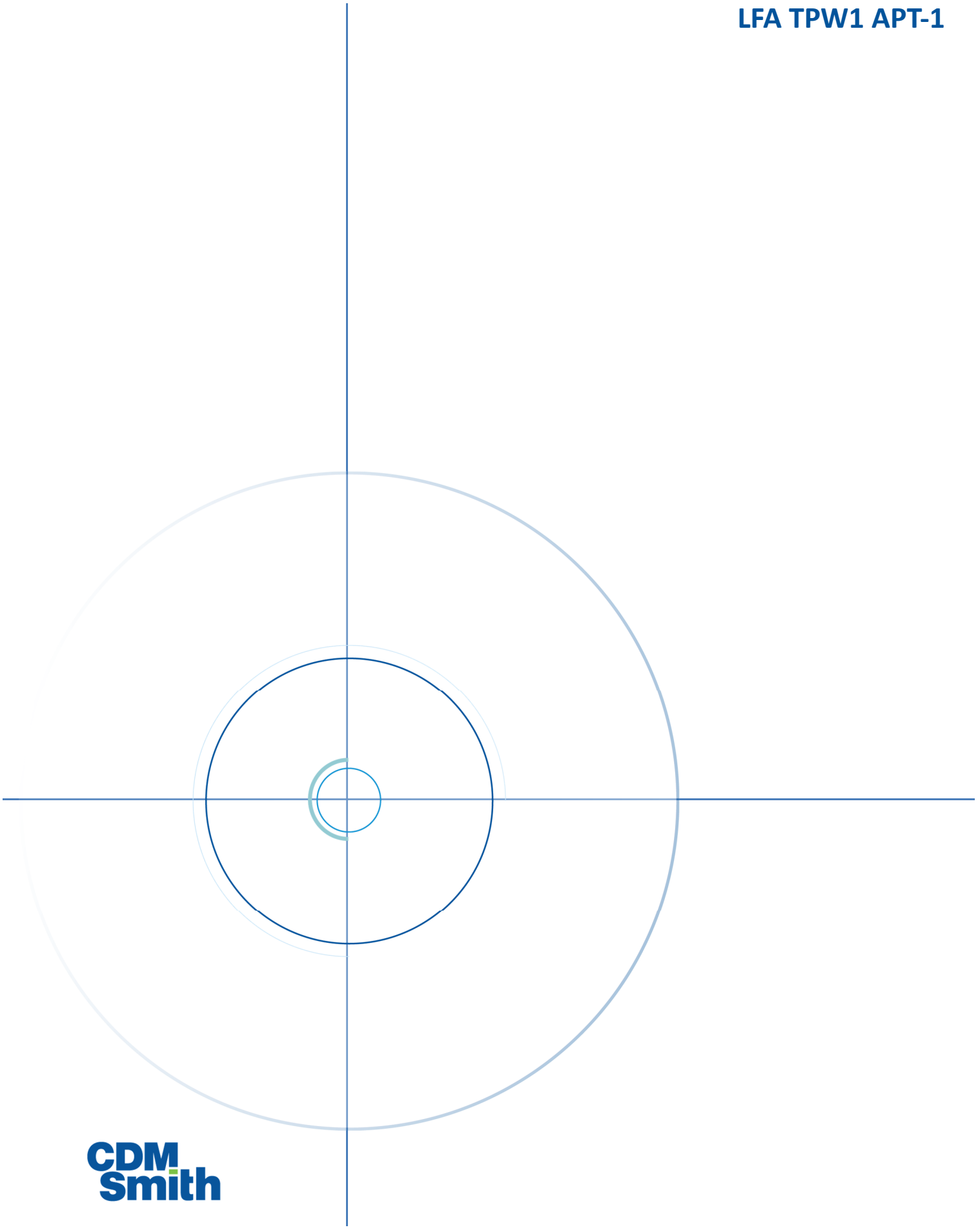


Figure C-1
Groundwater Level Fluctuations in Regional Upper and Lower Floridan Aquifer Monitor Wells, January through May 2017

Attachment D

Analytical Results for Samples Taken at the Ocala APT Sites

LFA TPW1 APT-1



CDM Smith

Advanced Environmental Laboratories, Inc.
4965 SW 41st Bl Gainesville, FL 32608
Payments: P.O. Box 551580 Jacksonville, FL 32255-1580
Phone: (352) 377-2349
Fax: (352) 395-6639

May 2, 2017

Jason Mills
CDM Smith
2301 Mailand Center Parkway
Suite 300
Maitland, FL 32751

RE: Workorder: G1703136 OCALA APT SITE

Dear Jason Mills:

Enclosed are the analytical results for sample(s) received by the laboratory on Monday, April 17, 2017. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report. The analytical results for the samples contained in this report were submitted for analysis as outlined by the Chain of Custody and results pertain only to these samples.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Todd Romero
TRomero@AELLab.com

Enclosures

CERTIFICATE OF ANALYSIS

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SAMPLE SUMMARY

Workorder: G1703136 OCALA APT SITE

Lab ID	Sample ID	Matrix	Date Collected	Date Received
G1703136001	LFA TPW1 APT1	Water	4/17/2017 12:10	4/17/2017 14:40

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ANALYTICAL RESULTS

Workorder: G1703136 OCALA APT SITE

Lab ID: **G1703136001** Date Received: 04/17/17 14:40 Matrix: Water

Sample ID: **LFA TPW1 APT1** Date Collected: 04/17/17 12:10

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: E200.7 Analysis,Waters	Preparation Method: EPA 200.7 Analytical Method: EPA 200.7							
Calcium	**140**		**mg/L**	**1**	0.50	0.16	4/19/2017 18:57	J
Magnesium	**25**		**mg/L**	**1**	0.20	0.021	4/19/2017 18:57	J
Total Hardness (as CaCO3)	**460**		**mg/L**	**1**	0.16	0.10	4/19/2017 18:57	J
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Iron	**0.091**	**I**	**mg/L**	**1**	0.20	0.030	4/19/2017 18:57	J
Potassium	**2.0**		**mg/L**	**1**	0.20	0.16	4/19/2017 18:57	J
Sodium	**15**		**mg/L**	**1**	0.20	0.16	4/19/2017 18:57	J
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**19**		**mg/L**	**1**	5.0	0.50	4/18/2017 12:23	G
Sulfate	**270**		**mg/L**	**3**	15	0.82	4/20/2017 03:54	G
Analysis Desc: Alkalinity,SM2320B,Water	Analytical Method: SM 2320B							
Alkalinity, Bicarbonate	**210**		**mg/L**	**1**	5.0	5.0	4/24/2017 11:30	G
Alkalinity, Carbonate	**5.0**	**U**	**mg/L**	**1**	5.0	5.0	4/24/2017 11:30	G
Alkalinity, Total	**210**		**mg/L**	**1**	5.0	5.0	4/24/2017 11:30	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**660**		**mg/L**	**1**	5.0	5.0	4/18/2017 14:29	G
Analysis Desc: Sulfide,SM4500S-D,Aqueous	Analytical Method: SM 4500-S D							
Hydrogen Sulfide	**5.4**		**mg/L**	**10**	0.50	0.083	4/18/2017 10:45	T
Sulfide	**5.1**		**mg/L**	**10**	0.50	0.083	4/18/2017 10:45	T

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Fax: (352) 395-6639

ANALYTICAL RESULTS QUALIFIERS

Workorder: G1703136 OCALA APT SITE

PARAMETER QUALIFIERS

U	The compound was analyzed for but not detected.
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

LAB QUALIFIERS

G	DOH Certification #E82001(AEL-G)(FL NELAC Certification)
J	DOH Certification #E82574(AEL-JAX)(FL NELAC Certification)
T	DOH Certification #E84589(AEL-T)(FL NELAC Certification)

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QUALITY CONTROL DATA

Workorder: G1703136 OCALA APT SITE

QC Batch: WCAg/4698 Analysis Method: EPA 300.0

QC Batch Method: EPA 300.0 Prepared:

Associated Lab Samples: G1703136001

METHOD BLANK: 2327919

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
Chloride	mg/L	0.50	0.50	U
Sulfate	mg/L	0.27	0.27	U

METHOD BLANK: 2327923

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
Chloride	mg/L	0.50	0.50	U
Sulfate	mg/L	0.27	0.27	U

LABORATORY CONTROL SAMPLE: 2327915

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY						
Chloride	mg/L	20	20	98	90-110	
Sulfate	mg/L	20	20	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2327917 2327918 Original: G1703131001

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
WET CHEMISTRY											
Chloride	mg/L	60	11	73	73	111	115	90-110	1	10	
Sulfate	mg/L	75	11	86	86	100	101	90-110	0	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2327921 2327922 Original: G1703129001

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
WET CHEMISTRY											

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QUALITY CONTROL DATA

Workorder: G1703136 OCALA APT SITE

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2327921 2327922 Original: G1703129001

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
Chloride	mg/L	11	11	23	23	114	114	90-110	0	10	
Sulfate	mg/L	67	11	78	78	99	103	90-110	0	10	

QC Batch: WCAt/8087 Analysis Method: SM 4500-S D
QC Batch Method: SM 4500-S D Prepared:
Associated Lab Samples: G1703136001

METHOD BLANK: 2328263

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
Sulfide	mg/L	0.0083	0.0083	U

LABORATORY CONTROL SAMPLE: 2328262

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY						
Sulfide	mg/L	0.4	0.36	91	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2328264 2328265 Original: G1703136001

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
WET CHEMISTRY											
Sulfide	mg/L	5.1	0.4	5.5	5.5	102	92	90-110	1	10	

QC Batch: DGMj/2860 Analysis Method: SW-846 6010
QC Batch Method: SW-846 3010A Prepared: 04/19/2017 03:30
Associated Lab Samples: G1703136001

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QUALITY CONTROL DATA

Workorder: G1703136 OCALA APT SITE

METHOD BLANK: 2328281

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
METALS				
Iron	mg/L	0.030	0.030	U
Potassium	mg/L	0.16	0.16	U
Sodium	mg/L	0.16	0.16	U

LABORATORY CONTROL SAMPLE: 2328282

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
METALS						
Iron	mg/L	25	25	98	80-120	
Potassium	mg/L	29	28	97	80-120	
Sodium	mg/L	50	48	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2328283 2328284 Original: S1700528001

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
METALS											
Iron	mg/L	66	25	91	91	98	96	75-125	0	20	
Potassium	mg/L	0	29	38	38	131	131	75-125	0	20	
Sodium	mg/L	110	50	160	160	97	98	75-125	0	20	

QC Batch: DGMj/2861 Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 Prepared: 04/19/2017 03:30
Associated Lab Samples: G1703136001

METHOD BLANK: 2328286

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
METALS				
Calcium	mg/L	0.16	0.16	U
Magnesium	mg/L	0.021	0.021	U

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QUALITY CONTROL DATA

Workorder: G1703136 OCALA APT SITE

LABORATORY CONTROL SAMPLE: 2328287

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
METALS						
Calcium	mg/L	25	25	98	85-115	
Magnesium	mg/L	25	25	97	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2328288 2328289 Original: G1703110001

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
METALS											
Calcium	mg/L	0	25	25	25	98	99	70-130	1	20	
Magnesium	mg/L	0	25	24	25	96	98	70-130	2	20	

QC Batch: WCAg/4706 Analysis Method: SM 2540 C

QC Batch Method: SM 2540 C Prepared:

Associated Lab Samples: G1703136001

METHOD BLANK: 2328688

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
Total Dissolved Solids	mg/L	5.0	5.0	U

METHOD BLANK: 2328691

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
Total Dissolved Solids	mg/L	5.0	5.0	U

LABORATORY CONTROL SAMPLE: 2328689

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY						

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QUALITY CONTROL DATA

Workorder: G1703136 OCALA APT SITE

LABORATORY CONTROL SAMPLE: 2328689

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	330	340	102		

SAMPLE DUPLICATE: 2328690 Original: G1703047005

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	Qualifiers
WET CHEMISTRY						
Total Dissolved Solids	mg/L	280	280	1	5	

QC Batch: WCAg/4719 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Prepared:
Associated Lab Samples: G1703136001

METHOD BLANK: 2330514

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
Sulfate	mg/L	0.27	0.27	U

METHOD BLANK: 2330961

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
Sulfate	mg/L	0.27	0.27	U

LABORATORY CONTROL SAMPLE: 2330503

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY						
Sulfate	mg/L	20	21	104	90-110	

QC Batch: WCAg/4744 Analysis Method: SM 2320B
QC Batch Method: SM 2320B Prepared:

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QUALITY CONTROL DATA

Workorder: G1703136 OCALA APT SITE

Associated Lab Samples: G1703136001

METHOD BLANK: 2333713

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
Alkalinity, Total	mg/L	5.0	5.0	U

METHOD BLANK: 2333718

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
Alkalinity, Total	mg/L	5.0	5.0	U

LABORATORY CONTROL SAMPLE: 2333715

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY						
Alkalinity, Total	mg/L	100	95	95	75-125	

SAMPLE DUPLICATE: 2333716 Original: G1703330001

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	Qualifiers
WET CHEMISTRY						
Alkalinity, Total	mg/L	210	210	2	20	

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: G1703136 OCALA APT SITE

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
G1703136001	LFA TPW1 APT1			EPA 300.0	WCAg/4698
G1703136001	LFA TPW1 APT1			SM 4500-S D	WCAt/8087
G1703136001	LFA TPW1 APT1	SW-846 3010A	DGMj/2860	SW-846 6010	ICPj/1938
G1703136001	LFA TPW1 APT1	EPA 200.7	DGMj/2861	EPA 200.7	ICPj/1939
G1703136001	LFA TPW1 APT1			SM 2540 C	WCAg/4706
G1703136001	LFA TPW1 APT1			EPA 300.0	WCAg/4719
G1703136001	LFA TPW1 APT1			SM 2320B	WCAg/4744

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G1703136

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APT

Client Name: CDM Smith
Address: 2301 Maitland Center Pkwy, Ste 300
Maitland FL 32751
Phone: 407-660-2552
FAX:
Contact: Jason Mills
Sampled By:
Turn Around Time: ☑ STANDARD ☐ RUSH
Page_____ of _____

Project Name: Ocala ~~ADP~~ Site
P.O. Number/Project Number:
Project Location:
FDEP Facility No.:
Project Name and Address: Ocala LFA APT
GNV Profile:
Special Instructions:
☐ ADaPT ☐ EQuIS ☐ Other

SAMPLE ID	SAMPLE DESCRIPTION	Grab Comp	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. COUNT	BOTTLE SIZE & TYPE	Cl, SO4 300.0	Na, K, Ca, Fe, Mg 6010	Alkalinity (2320B)	Hardness CALC	TDS SM2540C	Total Sulfide SM450S-D	Hydrogen Sulfide CALC				LABORATORY I.D. NUMBER
	ANALYSIS REQUIRED																	
	Preservation							ICE	HNO_3	ICE	→	→	NaOH ZnAc	NA				
	Field-Filtered?							ND					→					
LFA TPW1 APT1	LFA TPW1 APT1	6	4/12/17	12:10	GW	3		X	X	X	X	X	X	X				001

Matrix Code: WW = wastewater SW = surface water GW = ground water DW = drinking water O = oil A = air SO = soil SL = sludge
Preservation Code: I = ice H=(HCl) S = (H_2SO_4) N = (HNO_3) T = (Sodium Thiosulfate)

Received on Ice ☑ Yes ☐ No ☑ Temp taken from sample ☐ Temp from blank ☑ Where required, pH checked Temperature when received 2.1 (in degrees celcius)

DCN: AD-051 Form last revised 10/15/2015 Device used for measuring Temp by unique identifier (circle IR temp gun used) J: 9A G: LT-1 LT-2 T: 10A A: 3A M: 3A S: 1V

	Relinquished by:	Date	Time	Received by:	Date	Time
1	[signature]	4/12/17	1322	NCK	4/13/17	1:22
2				GC	4/13/17	1440
3						
4						

FOR DRINKING WATER USE:
(When PWS Information not otherwise supplied) PWS ID:_____
Contact Person:_____ Phone :_____
Supplier of Water:_____
Site-Address:_____

Anion - Cation Balance
SM1030F

Lab Code: **G1703136-001**

% difference = 100 X (Sum Cation - Sum Anions) / (Sum Cations + Sum Anions)

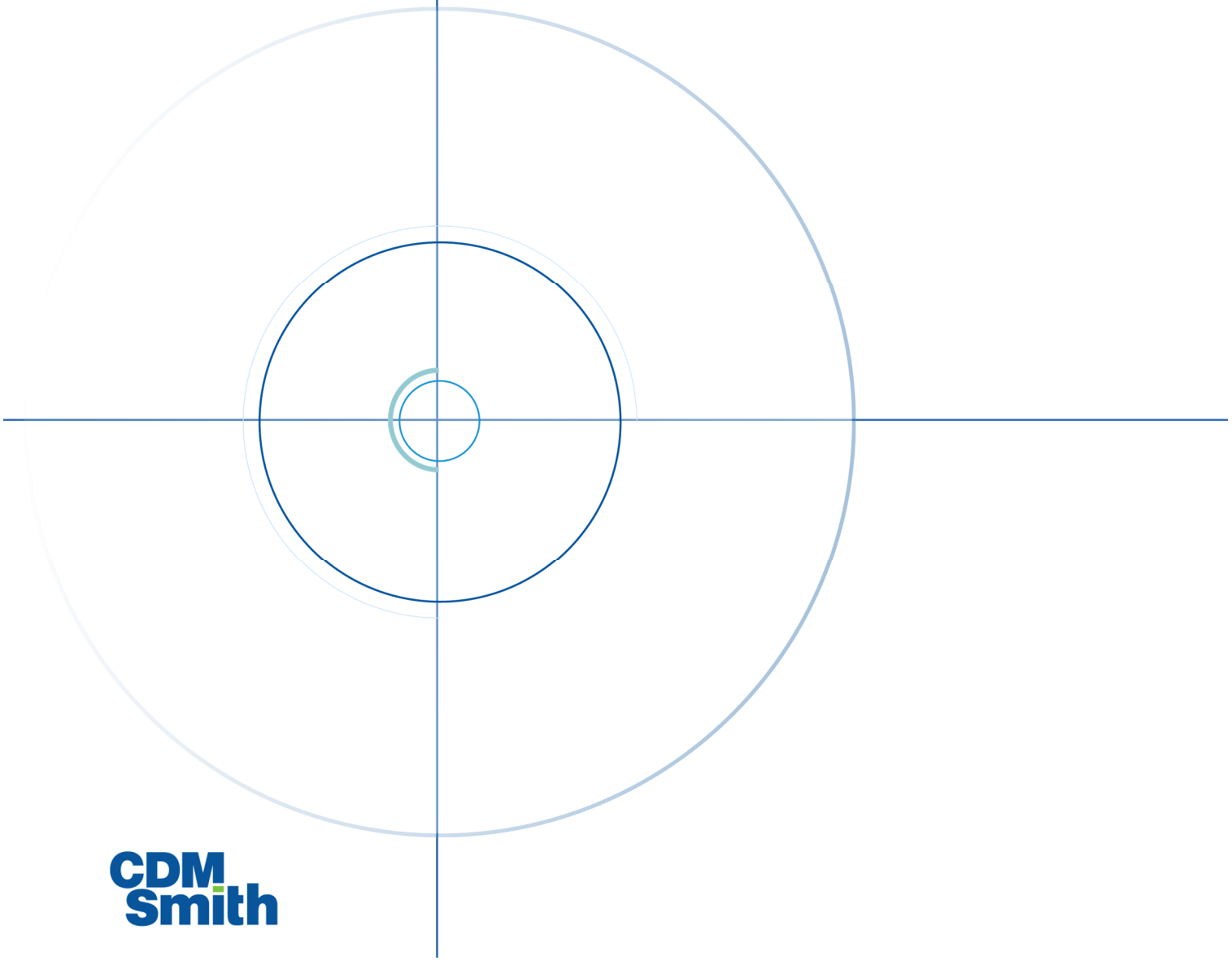
Cations	mg/L	meq/L	Anions	mg/L	meq/L
Calcium		20.039	Carbonate		50
Magnesium		12.152	Sulfate		48.04
Sodium		22.99	Chloride		35.45
Potassium		39.1	Bicarbonate		50

Cations	mg/L	meq/L	Anions	mg/L	meq/L
Calcium	140	6.99	Carbonate	5	0.10
Magnesium	25	2.06	Sulfate	270	5.62
Sodium	15	0.65	Chloride	19	0.54
Potassium	2	0.05	Bicarbonate	210	4.20
	Sum	9.75		Sum	10.46
			% Difference =	3.51	

Alkalinity	210
TDS	660

This Anion-Cation Balance calculation spreadsheet is provided as a courtesy to our clients upon request. This spreadsheet only accounts for the major ions measured and may not accurately reflect all possible influences. Therefore, Advanced Environmental Laboratories, Inc. assumes no legal liability or responsibility for any errors or omissions in the information or for any loss or damage resulting from the use of any information contained on this form.

LFA TPW1 APT-2 & LFA TPW1 APT-3



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May 1, 2017

Jason Mills
CDM Smith
2301 Mailand Center Parkway
Suite 300
Maitland, FL 32751

RE: Workorder: G1703229 OCALA ATP SITE

Dear Jason Mills:

Enclosed are the analytical results for sample(s) received by the laboratory on Wednesday, April 19, 2017. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report. The analytical results for the samples contained in this report were submitted for analysis as outlined by the Chain of Custody and results pertain only to these samples.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Todd Romero
TRomero@AELLab.com

Enclosures

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ACCREDITED IN ACCORDANCE WITH nelac

3004.1.0.0

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SAMPLE SUMMARY

Workorder: G1703229 OCALA ATP SITE

Lab ID	Sample ID	Matrix	Date Collected	Date Received
G1703229001	LFA TW1 APT-2	Water	4/18/2017 11:30	4/19/2017 14:40
G1703229002	LFA TW1 APT-3	Water	4/19/2017 12:45	4/19/2017 14:40
G1703229003	LFA TW1 ATP-2	Drinking Water	4/18/2017 11:30	4/19/2017 14:40
G1703229004	LFA TW1 ATP-3	Drinking Water	4/19/2017 12:45	4/19/2017 14:40

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ANALYTICAL RESULTS

Workorder: G1703229 OCALA ATP SITE

Lab ID: **G1703229001** Date Received: 04/19/17 14:40 Matrix: Water
Sample ID: **LFA TW1 APT-2** Date Collected: 04/18/17 11:30

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: E200.7 Analysis,Waters	Preparation Method: EPA 200.7 Analytical Method: EPA 200.7							
Calcium	**150**		**mg/L**	**1**	0.50	0.16	4/25/2017 15:04	J
Magnesium	**25**		**mg/L**	**1**	0.20	0.021	4/25/2017 15:04	J
Total Hardness (as CaCO3)	**470**		**mg/L**	**1**	0.16	0.10	4/25/2017 15:04	J
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Iron	**0.030**	**U**	**mg/L**	**1**	0.20	0.030	4/25/2017 15:01	J
Potassium	**2.0**		**mg/L**	**1**	0.20	0.16	4/25/2017 15:01	J
Sodium	**15**		**mg/L**	**1**	0.20	0.16	4/25/2017 15:01	J
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**20**		**mg/L**	**1**	5.0	0.50	4/21/2017 23:17	G
Sulfate	**280**		**mg/L**	**6**	30	1.6	4/24/2017 15:05	G
Analysis Desc: Alkalinity,SM2320B,Water	Analytical Method: SM 2320B							
Alkalinity, Bicarbonate	**210**		**mg/L**	**1**	5.0	5.0	4/24/2017 11:30	G
Alkalinity, Carbonate	**5.0**	**U**	**mg/L**	**1**	5.0	5.0	4/24/2017 11:30	G
Alkalinity, Total	**210**		**mg/L**	**1**	5.0	5.0	4/24/2017 11:30	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**230**		**mg/L**	**1**	5.0	5.0	4/24/2017 15:21	G

Lab ID: **G1703229002** Date Received: 04/19/17 14:40 Matrix: Water
Sample ID: **LFA TW1 APT-3** Date Collected: 04/19/17 12:45

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								

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ANALYTICAL RESULTS

Workorder: G1703229 OCALA ATP SITE

Lab ID: **G1703229002** Date Received: 04/19/17 14:40 Matrix: Water
Sample ID: **LFA TW1 APT-3** Date Collected: 04/19/17 12:45

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Analysis Desc: E200.7 Analysis,Waters	Preparation Method: EPA 200.7 Analytical Method: EPA 200.7							
Calcium	**150**		**mg/L**	**1**	0.50	0.16	4/25/2017 15:09	J
Magnesium	**25**		**mg/L**	**1**	0.20	0.021	4/25/2017 15:09	J
Total Hardness (as CaCO3)	**470**		**mg/L**	**1**	0.16	0.10	4/25/2017 15:09	J
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Iron	**0.048**	**I**	**mg/L**	**1**	0.20	0.030	4/25/2017 15:06	J
Potassium	**1.9**		**mg/L**	**1**	0.20	0.16	4/25/2017 15:06	J
Sodium	**15**		**mg/L**	**1**	0.20	0.16	4/25/2017 15:06	J
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**20**		**mg/L**	**1**	5.0	0.50	4/21/2017 23:39	G
Sulfate	**280**		**mg/L**	**6**	30	1.6	4/24/2017 15:28	G
Analysis Desc: Alkalinity,SM2320B,Water	Analytical Method: SM 2320B							
Alkalinity, Bicarbonate	**210**		**mg/L**	**1**	5.0	5.0	4/24/2017 11:30	G
Alkalinity, Carbonate	**5.0**	**U**	**mg/L**	**1**	5.0	5.0	4/24/2017 11:30	G
Alkalinity, Total	**210**		**mg/L**	**1**	5.0	5.0	4/24/2017 11:30	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**670**		**mg/L**	**1**	5.0	5.0	4/25/2017 15:36	G

Lab ID: **G1703229003** Date Received: 04/19/17 14:40 Matrix: Drinking Water
Sample ID: **LFA TW1 ATP-2** Date Collected: 04/18/17 11:30

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
WET CHEMISTRY								
Analysis Desc: Sulfide,SM4500S-D,Aqueous	Analytical Method: SM 4500-S D							
Hydrogen Sulfide	**5.8**		**mg/L**	**10**	0.50	0.083	4/25/2017 10:00	T

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ANALYTICAL RESULTS

Workorder: G1703229 OCALA ATP SITE

Lab ID: **G1703229003** Date Received: 04/19/17 14:40 Matrix: Drinking Water
Sample ID: **LFA TW1 ATP-2** Date Collected: 04/18/17 11:30

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Sulfide	**5.5**		**mg/L**	**10**	0.50	0.083	4/25/2017 10:00	T

Lab ID: **G1703229004** Date Received: 04/19/17 14:40 Matrix: Drinking Water
Sample ID: **LFA TW1 ATP-3** Date Collected: 04/19/17 12:45

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
WET CHEMISTRY								
Analysis Desc: Sulfide,SM4500S-D,Aqueous	Analytical Method: SM 4500-S D							
Hydrogen Sulfide	**5.5**		**mg/L**	**10**	0.50	0.083	4/25/2017 10:00	T
Sulfide	**5.2**		**mg/L**	**10**	0.50	0.083	4/25/2017 10:00	T

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ANALYTICAL RESULTS QUALIFIERS

Workorder: G1703229 OCALA ATP SITE

PARAMETER QUALIFIERS

U	The compound was analyzed for but not detected.
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

LAB QUALIFIERS

G	DOH Certification #E82001(AEL-G)(FL NELAC Certification)
J	DOH Certification #E82574(AEL-JAX)(FL NELAC Certification)
T	DOH Certification #E84589(AEL-T)(FL NELAC Certification)

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QUALITY CONTROL DATA

Workorder: G1703229 OCALA ATP SITE

QC Batch: DGMj/2880 Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 Prepared: 04/24/2017 07:40
Associated Lab Samples: G1703229001, G1703229002

METHOD BLANK: 2332228

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
METALS				
Calcium	mg/L	0.16	0.16	U
Magnesium	mg/L	0.021	0.021	U

LABORATORY CONTROL SAMPLE: 2332229

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
METALS						
Calcium	mg/L	25	25	97	85-115	
Magnesium	mg/L	25	24	95	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2332230 2332231 Original: J1703805001

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
METALS											
Calcium	mg/L	30	25	55	56	98	101	70-130	1	20	
Magnesium	mg/L	7.7	25	32	32	96	95	70-130	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2332232 2332233 Original: G1703284001

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
METALS											
Calcium	mg/L	140	25	170	170	122	120	70-130	0	20	
Magnesium	mg/L	25	25	49	49	97	96	70-130	0	20	

QC Batch: DGMj/2882 Analysis Method: SW-846 6010
QC Batch Method: SW-846 3010A Prepared: 04/24/2017 07:40
Associated Lab Samples: G1703229001, G1703229002

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QUALITY CONTROL DATA

Workorder: G1703229 OCALA ATP SITE

METHOD BLANK: 2332243

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
METALS				
Iron	mg/L	0.030	0.030	U
Potassium	mg/L	0.16	0.16	U
Sodium	mg/L	0.16	0.16	U

LABORATORY CONTROL SAMPLE: 2332244

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
METALS						
Iron	mg/L	25	25	99	80-120	
Potassium	mg/L	29	28	96	80-120	
Sodium	mg/L	50	48	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2332245 2332246 Original: G1703229001

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
METALS											
Iron	mg/L	0.024	25	25	26	99	101	75-125	2	20	
Potassium	mg/L	2	29	30	31	98	100	75-125	2	20	
Sodium	mg/L	15	50	63	64	95	97	75-125	2	20	

QC Batch: WCAg/4733 Analysis Method: EPA 300.0

QC Batch Method: EPA 300.0 Prepared:

Associated Lab Samples: G1703229001, G1703229002

METHOD BLANK: 2332852

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
Chloride	mg/L	0.50	0.50	U
Sulfate	mg/L	0.27	0.27	U

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QUALITY CONTROL DATA

Workorder: G1703229 OCALA ATP SITE

METHOD BLANK: 2332856

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
Chloride	mg/L	0.50	0.50	U
Sulfate	mg/L	0.27	0.27	U

LABORATORY CONTROL SAMPLE: 2332845

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY						
Chloride	mg/L	20	20	101	90-110	
Sulfate	mg/L	20	21	104	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2332850 2332851 Original: G1703279003

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
WET CHEMISTRY											
Sulfate	mg/L	34	11	47	47	114	113	90-110	0	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2332854 2332855 Original: G1703247003

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
WET CHEMISTRY											
Chloride	mg/L	24	11	36	35	108	106	90-110	1	10	
Sulfate	mg/L	44	11	56	56	101	104	90-110	1	10	

QC Batch: WCAg/4744 Analysis Method: SM 2320B

QC Batch Method: SM 2320B Prepared:

Associated Lab Samples: G1703229001, G1703229002

METHOD BLANK: 2333713

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
Alkalinity, Total	mg/L	5.0	5.0	U

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QUALITY CONTROL DATA

Workorder: G1703229 OCALA ATP SITE

METHOD BLANK: 2333713

METHOD BLANK: 2333718

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
Alkalinity, Total	mg/L	5.0	5.0	U

LABORATORY CONTROL SAMPLE: 2333715

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY						
Alkalinity, Total	mg/L	100	95	95	75-125	

SAMPLE DUPLICATE: 2333716 Original: G1703330001

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	Qualifiers
WET CHEMISTRY						
Alkalinity, Total	mg/L	210	210	2	20	

QC Batch: WCAg/4749 Analysis Method: SM 2540 C

QC Batch Method: SM 2540 C Prepared:

Associated Lab Samples: G1703229001

METHOD BLANK: 2334009

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
Total Dissolved Solids	mg/L	5.0	5.0	U

METHOD BLANK: 2334011

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
Total Dissolved Solids	mg/L	5.0	5.0	U

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QUALITY CONTROL DATA

Workorder: G1703229 OCALA ATP SITE

LABORATORY CONTROL SAMPLE: 2334007

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY						
Total Dissolved Solids	mg/L	330	330	101		

SAMPLE DUPLICATE: 2334008 Original: G1703317105

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	Qualifiers
WET CHEMISTRY						
Total Dissolved Solids	mg/L	160	160	4	5	

SAMPLE DUPLICATE: 2334010 Original: G1703317083

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	Qualifiers
WET CHEMISTRY						
Total Dissolved Solids	mg/L	230	230	1	5	

QC Batch: WCAg/4752 Analysis Method: EPA 300.0

QC Batch Method: EPA 300.0 Prepared:

Associated Lab Samples: G1703229001, G1703229002

METHOD BLANK: 2334156

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
Sulfate	mg/L	0.27	0.27	U

METHOD BLANK: 2334586

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
Sulfate	mg/L	0.27	0.27	U

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QUALITY CONTROL DATA

Workorder: G1703229 OCALA ATP SITE

LABORATORY CONTROL SAMPLE: 2334155

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY						
Sulfate	mg/L	20	21	103	90-110	

QC Batch: WCAt/8225 Analysis Method: SM 4500-S D
QC Batch Method: SM 4500-S D Prepared:
Associated Lab Samples: G1703229003, G1703229004

METHOD BLANK: 2334512

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
Sulfide	mg/L	0.0083	0.0083	U

LABORATORY CONTROL SAMPLE: 2334511

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY						
Sulfide	mg/L	0.4	0.38	96	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2334513 2334514 Original: G1703229003

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
WET CHEMISTRY											
Sulfide	mg/L	5.5	0.4	5.8	5.8	98	91	90-110	0	10	

QC Batch: WCAg/4763 Analysis Method: SM 2540 C
QC Batch Method: SM 2540 C Prepared:
Associated Lab Samples: G1703229002

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QUALITY CONTROL DATA

Workorder: G1703229 OCALA ATP SITE

METHOD BLANK: 2335042

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
Total Dissolved Solids	mg/L	5.0	5.0	U

METHOD BLANK: 2335045

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
Total Dissolved Solids	mg/L	5.0	5.0	U

LABORATORY CONTROL SAMPLE: 2335043

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY						
Total Dissolved Solids	mg/L	330	330	100		

SAMPLE DUPLICATE: 2335044 Original: G1703317086

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	Qualifiers
WET CHEMISTRY						
Total Dissolved Solids	mg/L	690	690	1	5	

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: G1703229 OCALA ATP SITE

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
G1703229001	LFA TW1 APT-2	EPA 200.7	DGMj/2880	EPA 200.7	ICPj/1950
G1703229002	LFA TW1 APT-3	EPA 200.7	DGMj/2880	EPA 200.7	ICPj/1950
G1703229001	LFA TW1 APT-2	SW-846 3010A	DGMj/2882	SW-846 6010	ICPj/1951
G1703229002	LFA TW1 APT-3	SW-846 3010A	DGMj/2882	SW-846 6010	ICPj/1951
G1703229001	LFA TW1 APT-2			EPA 300.0	WCAg/4733
G1703229002	LFA TW1 APT-3			EPA 300.0	WCAg/4733
G1703229001	LFA TW1 APT-2			SM 2320B	WCAg/4744
G1703229002	LFA TW1 APT-3			SM 2320B	WCAg/4744
G1703229001	LFA TW1 APT-2			SM 2540 C	WCAg/4749
G1703229001	LFA TW1 APT-2			EPA 300.0	WCAg/4752
G1703229002	LFA TW1 APT-3			EPA 300.0	WCAg/4752
G1703229003	LFA TW1 ATP-2			SM 4500-S D	WCAt/8225
G1703229004	LFA TW1 ATP-3			SM 4500-S D	WCAt/8225
G1703229002	LFA TW1 APT-3			SM 2540 C	WCAg/4763

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lient Name: CDM Smith	Project Name: Ocala ADP Site
ddress: 2301 Maitland Center Pkwy, Ste 300	P.O. Number/Project Number:
Maitland FL 32751	Project Location:
hone: 407-660-2552	FDEP Facility No.:
AX:	Project Name and Address:
ontact: Jason Mills	GNV Profile:
ampled By:	
urn Around Time: ☑ STANDARD ☐ RUSH	Special Instructions:
Page 1 of 1	☐ ADaPT ☐ EQuIS ☐ Other

SAMPLE ID	SAMPLE DESCRIPTION	Grab Comp	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. COUNT	Cl, SO4 300.0	Na, K, Ca, Fe, Mg 6010	Alkalinity (2320B)	Hardness CALC	TDS SM2540C	Total Sulfide SM450S-D	Hydrogen Sulfide CALC				LABORATORY I.D. NUMBER
BOTTLE SIZE & TYPE																	
ANALYSIS REQUIRED																	
Preservation							UNP	HNO_3	UNP	UNP	UNP	NaOH ZnAc	NA				
Field-Filtered?							NO						→				
APT-2	LFA TW1 APT-2	G	4/13/17	11:30	GW	3	✓	✓	✓	✓	✓	✓	✓				001
APT-3	LFA TW1 APT-3	G	4/19/17	12:45	GW	3	X	X	X	X	X	X	X				002

Matrix Code: WW = wastewater SW = surface water GW = ground water DW = drinking water O = oil A = air SO = soil SL = sludge

Preservation Code: I = ice H=(HCl) S = (H_2SO_4) N = (HNO_3) T = (Sodium Thiosulfate)

eceived on Ice ☑ Yes ☐ No ☑ Temp taken from sample ☐ Temp from blank ☑ Where required, pH checked Temperature when received 2.1 (in degrees celcius)

CN: AD-051 Form last revised 10/15/2015 Device used for measuring Temp by unique identifier (circle IR temp gun used) J: 9A Q: LT-1 LT-2 T: 10A A: 3A M: 3A S: 1V

	Relinquished by:	Date	Time	Received by:	Date	Time
1		4/19/17	13:15		4/19/17	15:15
2					4/19/17	1440
3						
4						

FOR DRINKING WATER USE:
(When PWS Information not otherwise supplied) PWS ID:
Contact Person: Phone :
Supplier of Water:
Site-Address:

Anion - Cation Balance
SM1030F

Lab Code: **G1703229-001**

% difference = 100 X (Sum Cation - Sum Anions) / (Sum Cations + Sum Anions)

Cations	mg/L	meq/L	Anions	mg/L	meq/L
Calcium		20.039	Carbonate		50
Magnesium		12.152	Sulfate		48.04
Sodium		22.99	Chloride		35.45
Potassium		39.1	Bicarbonate		50

Cations	mg/L	meq/L	Anions	mg/L	meq/L
Calcium	150	7.49	Carbonate	5	0.10
Magnesium	25	2.06	Sulfate	280	5.83
Sodium	15	0.65	Chloride	20	0.56
Potassium	2	0.05	Bicarbonate	210	4.20
	Sum	10.25		Sum	10.69
			% Difference =	2.13	

Alkalinity	210
TDS	230

This Anion-Cation Balance calculation spreadsheet is provided as a courtesy to our clients upon request. This spreadsheet only accounts for the major ions measured and may not accurately reflect all possible influences. Therefore, Advanced Environmental Laboratories, Inc. assumes no legal liability or responsibility for any errors or omissions in the information or for any loss or damage resulting from the use of any information contained on this form.

Anion - Cation Balance
SM1030F

Lab Code: **G1703229-002**

% difference = 100 X (Sum Cation - Sum Anions) / (Sum Cations + Sum Anions)

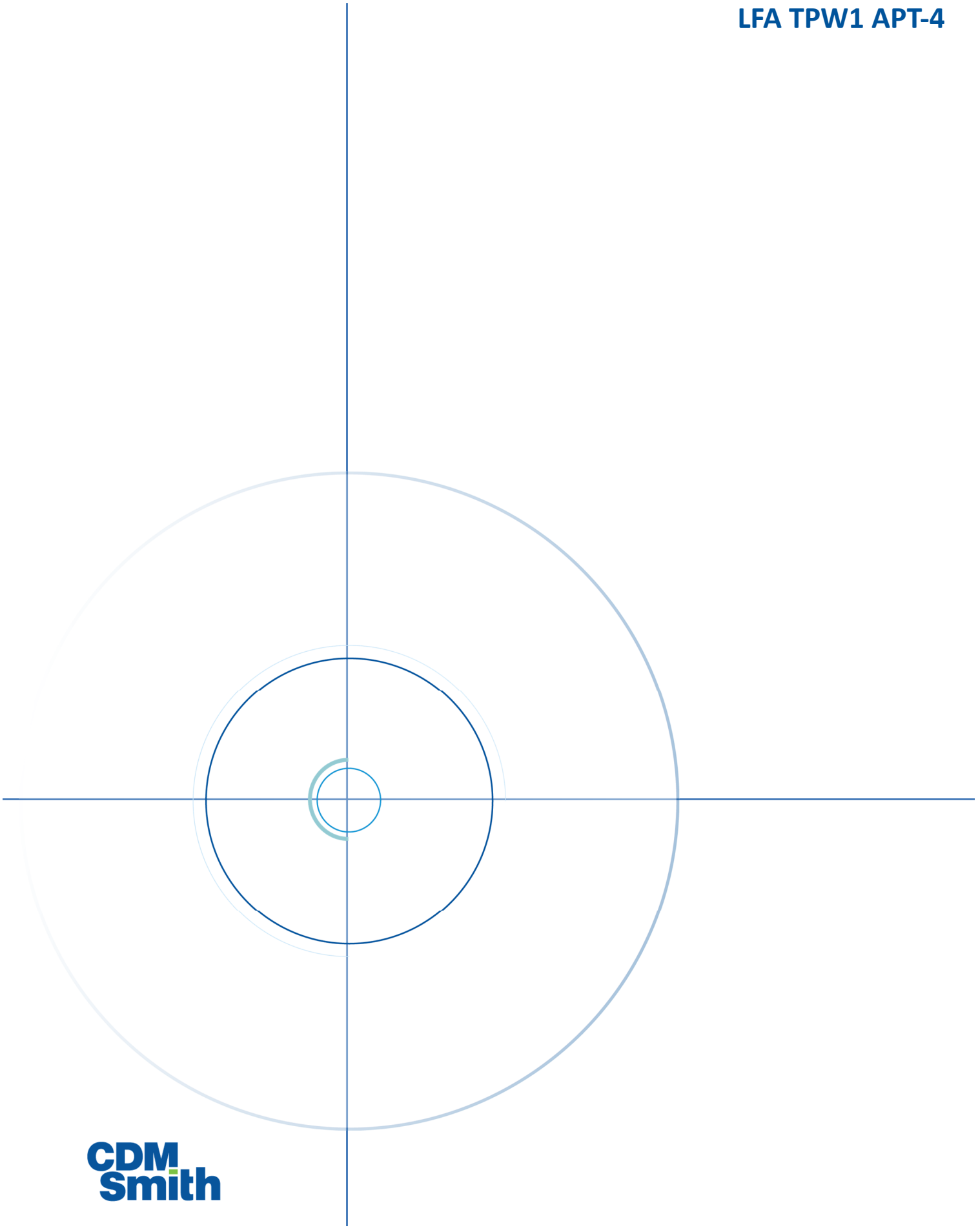
Cations	mg/L	meq/L	Anions	mg/L	meq/L
Calcium		20.039	Carbonate		50
Magnesium		12.152	Sulfate		48.04
Sodium		22.99	Chloride		35.45
Potassium		39.1	Bicarbonate		50

Cations	mg/L	meq/L	Anions	mg/L	meq/L
Calcium	150	7.49	Carbonate	5	0.10
Magnesium	25	2.06	Sulfate	280	5.83
Sodium	15	0.65	Chloride	20	0.56
Potassium	1.9	0.05	Bicarbonate	210	4.20
	Sum	10.24		Sum	10.69
			% Difference =	2.14	

Alkalinity	210
TDS	670

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LFA TPW1 APT-4



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May 4, 2017

Jason Mills
CDM Smith
2301 Mailand Center Parkway
Suite 300
Maitland, FL 32751

RE: Workorder: G1703284 OCALA APT SITE

Dear Jason Mills:

Enclosed are the analytical results for sample(s) received by the laboratory on Thursday, April 20, 2017. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report. The analytical results for the samples contained in this report were submitted for analysis as outlined by the Chain of Custody and results pertain only to these samples.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Todd Romero
TRomero@AELLab.com

Enclosures

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SAMPLE SUMMARY

Workorder: G1703284 OCALA APT SITE

Lab ID	Sample ID	Matrix	Date Collected	Date Received
G1703284001	LFA TW-1 APT-4	Water	4/20/2017 11:40	4/20/2017 15:10
G1703284002	LFA TW-1 APT-4	Drinking Water	4/20/2017 11:40	4/20/2017 15:10

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ANALYTICAL RESULTS

Workorder: G1703284 OCALA APT SITE

Lab ID: **G1703284001** Date Received: 04/20/17 15:10 Matrix: Water
Sample ID: **LFA TW-1 APT-4** Date Collected: 04/20/17 11:40

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: E200.7 Analysis,Waters	Preparation Method: EPA 200.7 Analytical Method: EPA 200.7							
Calcium	**140**		**mg/L**	**1**	0.50	0.16	4/25/2017 14:50	J
Magnesium	**25**		**mg/L**	**1**	0.20	0.021	4/25/2017 14:50	J
Total Hardness (as CaCO3)	**460**		**mg/L**	**1**	0.16	0.10	4/25/2017 14:50	J
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Iron	**0.050**	**I**	**mg/L**	**1**	0.20	0.030	4/26/2017 15:14	J
Potassium	**1.9**		**mg/L**	**1**	0.20	0.16	4/26/2017 15:14	J
Sodium	**15**		**mg/L**	**1**	0.20	0.16	4/26/2017 15:14	J
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**19**		**mg/L**	**1**	5.0	0.50	4/25/2017 05:43	G
Sulfate	**290**		**mg/L**	**6**	30	1.6	4/26/2017 15:02	G
Analysis Desc: Alkalinity,SM2320B,Water	Analytical Method: SM 2320B							
Alkalinity, Bicarbonate	**210**		**mg/L**	**1**	5.0	5.0	4/24/2017 11:30	G
Alkalinity, Carbonate	**5.0**	**U**	**mg/L**	**1**	5.0	5.0	4/24/2017 11:30	G
Alkalinity, Total	**210**		**mg/L**	**1**	5.0	5.0	4/24/2017 11:30	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**690**		**mg/L**	**1**	5.0	5.0	4/27/2017 15:07	G

Lab ID: **G1703284002** Date Received: 04/20/17 15:10 Matrix: Drinking Water
Sample ID: **LFA TW-1 APT-4** Date Collected: 04/20/17 11:40

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
WET CHEMISTRY								

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ANALYTICAL RESULTS

Workorder: G1703284 OCALA APT SITE

Lab ID: **G1703284002** Date Received: 04/20/17 15:10 Matrix: Drinking Water

Sample ID: **LFA TW-1 APT-4** Date Collected: 04/20/17 11:40

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Analysis Desc: Sulfide,SM4500S-D,Aqueous	Analytical Method: SM 4500-S D							
Hydrogen Sulfide	**5.8**		**mg/L**	**10**	0.50	0.083	4/25/2017 10:00	T
Sulfide	**5.5**		**mg/L**	**10**	0.50	0.083	4/25/2017 10:00	T

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ANALYTICAL RESULTS QUALIFIERS

Workorder: G1703284 OCALA APT SITE

PARAMETER QUALIFIERS

U	The compound was analyzed for but not detected.
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

LAB QUALIFIERS

G	DOH Certification #E82001(AEL-G)(FL NELAC Certification)
J	DOH Certification #E82574(AEL-JAX)(FL NELAC Certification)
T	DOH Certification #E84589(AEL-T)(FL NELAC Certification)

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QUALITY CONTROL DATA

Workorder: G1703284 OCALA APT SITE

QC Batch: DGMj/2880 Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 Prepared: 04/24/2017 07:40
Associated Lab Samples: G1703284001

METHOD BLANK: 2332228

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
METALS				
Calcium	mg/L	0.16	0.16	U
Magnesium	mg/L	0.021	0.021	U

LABORATORY CONTROL SAMPLE: 2332229

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
METALS						
Calcium	mg/L	25	25	97	85-115	
Magnesium	mg/L	25	24	95	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2332230 2332231 Original: J1703805001

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
METALS											
Calcium	mg/L	30	25	55	56	98	101	70-130	1	20	
Magnesium	mg/L	7.7	25	32	32	96	95	70-130	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2332232 2332233 Original: G1703284001

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
METALS											
Calcium	mg/L	140	25	170	170	122	120	70-130	0	20	
Magnesium	mg/L	25	25	49	49	97	96	70-130	0	20	

QC Batch: DGMj/2882 Analysis Method: SW-846 6010
QC Batch Method: SW-846 3010A Prepared: 04/24/2017 07:40
Associated Lab Samples: G1703284001

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QUALITY CONTROL DATA

Workorder: G1703284 OCALA APT SITE

METHOD BLANK: 2332243

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
METALS				
Iron	mg/L	0.030	0.030	U
Potassium	mg/L	0.16	0.16	U
Sodium	mg/L	0.16	0.16	U

LABORATORY CONTROL SAMPLE: 2332244

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
METALS						
Iron	mg/L	25	25	99	80-120	
Potassium	mg/L	29	28	96	80-120	
Sodium	mg/L	50	48	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2332245 2332246 Original: G1703229001

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
METALS											
Iron	mg/L	0.024	25	25	26	99	101	75-125	2	20	
Potassium	mg/L	2	29	30	31	98	100	75-125	2	20	
Sodium	mg/L	15	50	63	64	95	97	75-125	2	20	

QC Batch: WCAg/4744 Analysis Method: SM 2320B
QC Batch Method: SM 2320B Prepared:
Associated Lab Samples: G1703284001

METHOD BLANK: 2333713

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
Alkalinity, Total	mg/L	5.0	5.0	U

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QUALITY CONTROL DATA

Workorder: G1703284 OCALA APT SITE

METHOD BLANK: 2333718

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
Alkalinity, Total	mg/L	5.0	5.0	U

LABORATORY CONTROL SAMPLE: 2333715

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY						
Alkalinity, Total	mg/L	100	95	95	75-125	

SAMPLE DUPLICATE: 2333716 Original: G1703330001

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	Qualifiers
WET CHEMISTRY						
Alkalinity, Total	mg/L	210	210	2	20	

QC Batch: WCAg/4752 Analysis Method: EPA 300.0

QC Batch Method: EPA 300.0 Prepared:

Associated Lab Samples: G1703284001

METHOD BLANK: 2334159

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
Chloride	mg/L	0.50	0.50	U
Sulfate	mg/L	0.27	0.27	U

METHOD BLANK: 2334586

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
Chloride	mg/L	0.50	0.50	U
Sulfate	mg/L	0.27	0.27	U

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QUALITY CONTROL DATA

Workorder: G1703284 OCALA APT SITE

LABORATORY CONTROL SAMPLE: 2334155

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY						
Chloride	mg/L	20	20	99	90-110	
Sulfate	mg/L	20	21	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2334157 2334158 Original: G1703330001

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
WET CHEMISTRY											
Chloride	mg/L	19	11	31	31	108	109	90-110	0	10	

QC Batch: WCAt/8225 Analysis Method: SM 4500-S D
QC Batch Method: SM 4500-S D Prepared:
Associated Lab Samples: G1703284002

METHOD BLANK: 2334512

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
Sulfide	mg/L	0.0083	0.0083	U

LABORATORY CONTROL SAMPLE: 2334511

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY						
Sulfide	mg/L	0.4	0.38	96	90-110	

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QUALITY CONTROL DATA

Workorder: G1703284 OCALA APT SITE

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2334513 2334514 Original: G1703229003

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
WET CHEMISTRY											
Sulfide	mg/L	5.5	0.4	5.8	5.8	98	91	90-110	0	10	

QC Batch: WCAg/4778 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Prepared:
Associated Lab Samples: G1703284001

METHOD BLANK: 2336371

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
Sulfate	mg/L	0.27	0.27	U

METHOD BLANK: 2336373

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
Sulfate	mg/L	0.27	0.27	U

LABORATORY CONTROL SAMPLE: 2336372

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY						
Sulfate	mg/L	20	21	104	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2336375 2336376 Original: G1703359003

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
WET CHEMISTRY											
Sulfate	mg/L	68	11	79	79	101	101	90-110	0	10	

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QUALITY CONTROL DATA

Workorder: G1703284 OCALA APT SITE

QC Batch: WCAg/4788 Analysis Method: SM 2540 C
QC Batch Method: SM 2540 C Prepared:
Associated Lab Samples: G1703284001

METHOD BLANK: 2337199

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
Total Dissolved Solids	mg/L	5.0	5.0	U

METHOD BLANK: 2337201

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
Total Dissolved Solids	mg/L	5.0	5.0	U

LABORATORY CONTROL SAMPLE: 2337197

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY						
Total Dissolved Solids	mg/L	330	330	100		

SAMPLE DUPLICATE: 2337200 Original: G1703352005

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	Qualifiers
WET CHEMISTRY						
Total Dissolved Solids	mg/L	120	120	5	5	

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: G1703284 OCALA APT SITE

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
G1703284001	LFA TW-1 APT-4	EPA 200.7	DGMj/2880	EPA 200.7	ICPj/1950
G1703284001	LFA TW-1 APT-4	SW-846 3010A	DGMj/2882	SW-846 6010	ICPj/1951
G1703284001	LFA TW-1 APT-4			SM 2320B	WCAg/4744
G1703284001	LFA TW-1 APT-4			EPA 300.0	WCAg/4752
G1703284002	LFA TW-1 APT-4			SM 4500-S D	WCAt/8225
G1703284001	LFA TW-1 APT-4			EPA 300.0	WCAg/4778
G1703284001	LFA TW-1 APT-4			SM 2540 C	WCAg/4788

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Client Name: CDM Smith
Address: 2301 Maitland Center Pkwy, Ste 300
Maitland FL 32751
Phone: 407-660-2552
FAX:
Contact: Jason Mills
Sampled By:
Turn Around Time: ☒ STANDARD ☐ RUSH
Page 1 of 1

Project Name: Ocala ADP Site
P.O. Number/Project Number:
Project Location:
FDEP Facility No.:
Project Name and Address:
GNV Profile:
Special Instructions:
☐ ADaPT ☐ EQuIS ☐ Other

SAMPLE ID	SAMPLE DESCRIPTION	Grab Comp	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. COUNT
LFA TW-1 ADT-4	LFA TW-1 ADT-4	G	4/20/17	11:40	GW	3

ANALYSIS REQUIRED	BOTTLE SIZE & TYPE	Cl, SO4 300.0	Na, K, Ca, Fe, Mg 6010	Alkalinity (2320B)	Hardness CALC	TDS SM2540C	Total Sulfide SM450S-D	Hydrogen Sulfide CALC	LABORATORY I.D. NUMBER
Preservation									
Field-Filtered?	NO								
		X	X	X	X	X	X	X	001
							X		002

Matrix Code: WW = wastewater SW = surface water GW = ground water DW = drinking water O = oil A = air SO = soil SL = sludge
Preservation Code: I = ice H=(HCl) S = (H2SO4) N = (HNO3) T = (Sodium Thiosulfate)

Received on Ice ☐ Yes ☐ No ☐ Temp taken from sample ☐ Temp from blank ☐ Where required, pH checked Temperature when received _____ (in degrees celcius)

CN: AD-051 Form last revised 10/15/2015

Device used for measuring Temp by unique identifier (circle IR temp gun used) J: 9A G: LT-1 LT-2 T: 10A A: 3A M: 3A S: 1V

	Relinquished by:	Date	Time	Received by:	Date	Time
1		4/20	13:10		4/20/17	1:10
2						
3						
4						

FOR DRINKING WATER USE:
(When PWS Information not otherwise supplied) PWS ID: _____
Contact Person: _____ Phone: _____
Supplier of Water: _____
Site-Address: _____

Anion - Cation Balance
SM1030F

Lab Code: **G1703284-001**

% difference = 100 X (Sum Cation - Sum Anions) / (Sum Cations + Sum Anions)

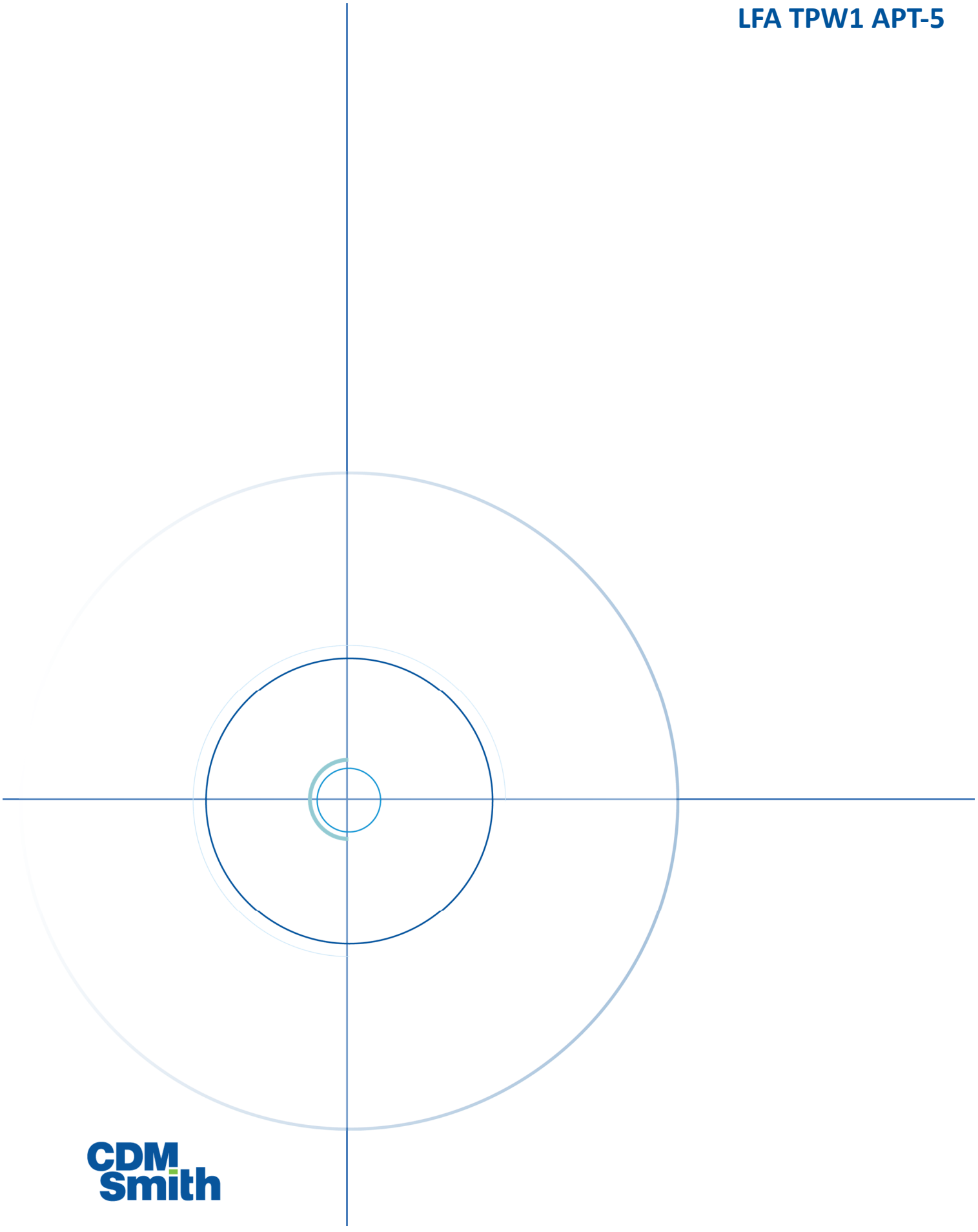
Cations	mg/L	meq/L	Anions	mg/L	meq/L
Calcium		20.039	Carbonate		50
Magnesium		12.152	Sulfate		48.04
Sodium		22.99	Chloride		35.45
Potassium		39.1	Bicarbonate		50

Cations	mg/L	meq/L	Anions	mg/L	meq/L
Calcium	140	6.99	Carbonate	5	0.10
Magnesium	25	2.06	Sulfate	290	6.04
Sodium	15	0.65	Chloride	19	0.54
Potassium	1.9	0.05	Bicarbonate	210	4.20
	Sum	9.74		Sum	10.87
			% Difference =	5.47	

Alkalinity	210
TDS	690

This Anion-Cation Balance calculation spreadsheet is provided as a courtesy to our clients upon request. This spreadsheet only accounts for the major ions measured and may not accurately reflect all possible influences. Therefore, Advanced Environmental Laboratories, Inc. assumes no legal liability or responsibility for any errors or omissions in the information or for any loss or damage resulting from the use of any information contained on this form.

LFA TPW1 APT-5



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May 4, 2017

Jason Mills
CDM Smith
2301 Mailand Center Parkway
Suite 300
Maitland, FL 32751

RE: Workorder: G1703330 OCALA APT SITE

Dear Jason Mills:

Enclosed are the analytical results for sample(s) received by the laboratory on Friday, April 21, 2017. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report. The analytical results for the samples contained in this report were submitted for analysis as outlined by the Chain of Custody and results pertain only to these samples.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Todd Romero
TRomero@AELLab.com

Enclosures

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SAMPLE SUMMARY

Workorder: G1703330 OCALA APT SITE

Lab ID	Sample ID	Matrix	Date Collected	Date Received
G1703330001	LFA TW1 APT-5	Water	4/21/2017 09:10	4/21/2017 11:50
G1703330002	LFA TW1 APT-5	Drinking Water	4/21/2017 09:10	4/21/2017 11:50

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ANALYTICAL RESULTS

Workorder: G1703330 OCALA APT SITE

Lab ID: **G1703330001** Date Received: 04/21/17 11:50 Matrix: Water
Sample ID: **LFA TW1 APT-5** Date Collected: 04/21/17 09:10

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: E200.7 Analysis,Waters	Preparation Method: EPA 200.7 Analytical Method: EPA 200.7							
Calcium	**150**		**mg/L**	**1**	0.50	0.16	4/26/2017 16:32	J
Magnesium	**25**		**mg/L**	**1**	0.20	0.021	4/26/2017 16:32	J
Total Hardness (as CaCO3)	**470**		**mg/L**	**1**	0.16	0.10	4/26/2017 16:32	J
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Iron	**0.66**		**mg/L**	**1**	0.20	0.030	4/26/2017 16:32	J
Potassium	**2.0**		**mg/L**	**1**	0.20	0.16	4/26/2017 16:32	J
Sodium	**15**		**mg/L**	**1**	0.20	0.16	4/26/2017 16:32	J
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**19**		**mg/L**	**1**	5.0	0.50	4/25/2017 07:13	G
Sulfate	**280**		**mg/L**	**6**	30	1.6	4/26/2017 15:24	G
Analysis Desc: Alkalinity,SM2320B,Water	Analytical Method: SM 2320B							
Alkalinity, Bicarbonate	**210**		**mg/L**	**1**	5.0	5.0	4/24/2017 11:30	G
Alkalinity, Carbonate	**5.0**	**U**	**mg/L**	**1**	5.0	5.0	4/24/2017 11:30	G
Alkalinity, Total	**210**		**mg/L**	**1**	5.0	5.0	4/24/2017 11:30	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**670**		**mg/L**	**1**	5.0	5.0	4/27/2017 15:07	G

Lab ID: **G1703330002** Date Received: 04/21/17 11:50 Matrix: Drinking Water
Sample ID: **LFA TW1 APT-5** Date Collected: 04/21/17 09:10

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
WET CHEMISTRY								

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ANALYTICAL RESULTS

Workorder: G1703330 OCALA APT SITE

Lab ID: **G1703330002** Date Received: 04/21/17 11:50 Matrix: Drinking Water

Sample ID: **LFA TW1 APT-5** Date Collected: 04/21/17 09:10

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Analysis Desc: Sulfide,SM4500S-D,Aqueous	Analytical Method: SM 4500-S D							
Hydrogen Sulfide	**6.4**		**mg/L**	**10**	0.50	0.083	4/28/2017 12:30	T
Sulfide	**6.1**		**mg/L**	**10**	0.50	0.083	4/28/2017 12:30	T

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ANALYTICAL RESULTS QUALIFIERS

Workorder: G1703330 OCALA APT SITE

PARAMETER QUALIFIERS

U	The compound was analyzed for but not detected.
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

LAB QUALIFIERS

G	DOH Certification #E82001(AEL-G)(FL NELAC Certification)
J	DOH Certification #E82574(AEL-JAX)(FL NELAC Certification)
T	DOH Certification #E84589(AEL-T)(FL NELAC Certification)

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Fax: (352) 395-6639

QUALITY CONTROL DATA

Workorder: G1703330 OCALA APT SITE

QC Batch: WCAg/4744 Analysis Method: SM 2320B
QC Batch Method: SM 2320B Prepared:
Associated Lab Samples: G1703330001

METHOD BLANK: 2333713

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
Alkalinity, Total	mg/L	5.0	5.0	U

METHOD BLANK: 2333718

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
Alkalinity, Total	mg/L	5.0	5.0	U

LABORATORY CONTROL SAMPLE: 2333715

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY						
Alkalinity, Total	mg/L	100	95	95	75-125	

SAMPLE DUPLICATE: 2333716 Original: G1703330001

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	Qualifiers
WET CHEMISTRY						
Alkalinity, Total	mg/L	210	210	2	20	

QC Batch: WCAg/4752 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Prepared:
Associated Lab Samples: G1703330001

METHOD BLANK: 2334159

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				

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QUALITY CONTROL DATA

Workorder: G1703330 OCALA APT SITE

METHOD BLANK: 2334159

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Chloride	mg/L	0.50	0.50	U
Sulfate	mg/L	0.27	0.27	U

METHOD BLANK: 2334586

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
Chloride	mg/L	0.50	0.50	U
Sulfate	mg/L	0.27	0.27	U

LABORATORY CONTROL SAMPLE: 2334155

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY						
Chloride	mg/L	20	20	99	90-110	
Sulfate	mg/L	20	21	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2334157 2334158 Original: G1703330001

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
WET CHEMISTRY											
Chloride	mg/L	19	11	31	31	108	109	90-110	0	10	

QC Batch: DGMj/2888 Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 Prepared: 04/25/2017 09:30
Associated Lab Samples: G1703330001

METHOD BLANK: 2334397

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
METALS				
Calcium	mg/L	0.16	0.16	U

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QUALITY CONTROL DATA

Workorder: G1703330 OCALA APT SITE

METHOD BLANK: 2334397

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Magnesium	mg/L	0.021	0.021	U

LABORATORY CONTROL SAMPLE: 2334398

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
METALS						
Calcium	mg/L	25	26	101	85-115	
Magnesium	mg/L	25	25	99	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2334399 2334400 Original: J1704121004

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
METALS											
Calcium	mg/L	36.83	25	64	62	109	101	70-130	3	20	
Magnesium	mg/L	12.71	25	39	38	103	101	70-130	1	20	

QC Batch: DGMj/2890 Analysis Method: SW-846 6010
QC Batch Method: SW-846 3010A Prepared: 04/25/2017 09:30
Associated Lab Samples: G1703330001

METHOD BLANK: 2334414

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
METALS				
Iron	mg/L	0.030	0.030	U
Potassium	mg/L	0.16	0.16	U
Sodium	mg/L	0.16	0.16	U

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QUALITY CONTROL DATA

Workorder: G1703330 OCALA APT SITE

LABORATORY CONTROL SAMPLE: 2334415

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
METALS						
Iron	mg/L	25	25	100	80-120	
Potassium	mg/L	29	29	100	80-120	
Sodium	mg/L	50	50	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2334416 2334417 Original: J1704101005

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
METALS											
Iron	mg/L	0	25	110	110	415	414	75-125	0	20	
Potassium	mg/L	0	29	33	32	112	112	75-125	0	20	
Sodium	mg/L	0	50	100	100	204	203	75-125	1	20	

QC Batch: WCAg/4778 Analysis Method: EPA 300.0

QC Batch Method: EPA 300.0 Prepared:

Associated Lab Samples: G1703330001

METHOD BLANK: 2336371

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
Sulfate	mg/L	0.27	0.27	U

METHOD BLANK: 2336373

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
Sulfate	mg/L	0.27	0.27	U

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QUALITY CONTROL DATA

Workorder: G1703330 OCALA APT SITE

LABORATORY CONTROL SAMPLE: 2336372

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY						
Sulfate	mg/L	20	21	104	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2336375 2336376 Original: G1703359003

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
WET CHEMISTRY											
Sulfate	mg/L	68	11	79	79	101	101	90-110	0	10	

QC Batch: WCAg/4788 Analysis Method: SM 2540 C
QC Batch Method: SM 2540 C Prepared:
Associated Lab Samples: G1703330001

METHOD BLANK: 2337199

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
Total Dissolved Solids	mg/L	5.0	5.0	U

METHOD BLANK: 2337201

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
Total Dissolved Solids	mg/L	5.0	5.0	U

LABORATORY CONTROL SAMPLE: 2337197

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY						
Total Dissolved Solids	mg/L	330	330	100		

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QUALITY CONTROL DATA

Workorder: G1703330 OCALA APT SITE

SAMPLE DUPLICATE: 2337200 Original: G1703352005

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	Qualifiers
WET CHEMISTRY						
Total Dissolved Solids	mg/L	120	120	5	5	

QC Batch: WCAt/8323 Analysis Method: SM 4500-S D
QC Batch Method: SM 4500-S D Prepared:
Associated Lab Samples: G1703330002

METHOD BLANK: 2338028

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
Sulfide	mg/L	0.0083	0.0083	U

LABORATORY CONTROL SAMPLE: 2338027

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY						
Sulfide	mg/L	0.4	0.37	94	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2338029 2338030 Original: T1706885001

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
WET CHEMISTRY											
Sulfide	mg/L	0.005	0.4	0.40	0.39	100	98	90-110	2	10	

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: G1703330 OCALA APT SITE

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
G1703330001	LFA TW1 APT-5			SM 2320B	WCAg/4744
G1703330001	LFA TW1 APT-5			EPA 300.0	WCAg/4752
G1703330001	LFA TW1 APT-5	EPA 200.7	DGMj/2888	EPA 200.7	ICPj/1953
G1703330001	LFA TW1 APT-5	SW-846 3010A	DGMj/2890	SW-846 6010	ICPj/1954
G1703330001	LFA TW1 APT-5			EPA 300.0	WCAg/4778
G1703330001	LFA TW1 APT-5			SM 2540 C	WCAg/4788
G1703330002	LFA TW1 APT-5			SM 4500-S D	WCAt/8323

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G1703330

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☐ **Tampa:** 9610 Princess Palm Ave. • Tampa, FL 33619 • 813.630.9616 • Fax 813.630.4327

Client Name: CDM Smith	Project Name: Ocala ADP Site
Address: 2301 Maitland Center Pkwy, Ste 300	P.O. Number/Project Number:
Maitland FL 32751	Project Location:
Phone: 407-660-2552	FDEP Facility No.:
FAX:	Project Name and Address:
Contact: Jason Mills	GNV Profile:
Sampled By:	
Turn Around Time: ☒ STANDARD ☐ RUSH	Special Instructions:
Page 1 of 1	☐ ADaPT ☐ EQuIS ☐ Other

SAMPLE ID	SAMPLE DESCRIPTION	Grab Comp	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. COUNT	LABORATORY I.D. NUMBER
FATW1 ADT-5	LFATW1 ADT-1	G	4/20/17	9:40	GW	3	001
							002

ANALYSIS REQUIRED

BOTTLE SIZE & TYPE	Cl, SO4 300.0	Na, K, Ca, Fe, Mg 6010	Alkalinity (2320B)	Hardness CALC	TDS SM2540C	Total Sulfide SM450S-D	Hydrogen Sulfide CALC			
Preservation										
Field-Filtered?	X									
	X	X	X	X	X	X	X			
						X				

Matrix Code: WW = wastewater SW = surface water GW = ground water DW = drinking water O = oil A = air SO = soil SL = sludge

Preservation Code: I = ice H=(HCl) S = (H2SO4) N = (HNO3) T = (Sodium Thiosulfate)

Received on Ice ☑ Yes ☐ No ☑ Temp taken from sample ☐ Temp from blank ☑ Where required, pH checked Temperature when received 3.1 (in degrees celcius)

FDCN: AD-051 Form last revised 10/15/2015 Device used for measuring Temp by unique identifier (circle IR temp gun used) J: 9A Q: LT-1 LT-2 T: 10A A: 3A M: 3A S: 1V

	Relinquished by:	Date	Time	Received by:	Date	Time
1		4/21/17	10:15		4/21/17	10:15
2					4/21/17	1115
3						
4						

FOR DRINKING WATER USE:

(When PWS Information not otherwise supplied) PWS ID:

Contact Person: Phone :

Supplier of Water:

Site-Address:

Anion - Cation Balance
SM1030F

Lab Code: **G1703330-001**

% difference = 100 X (Sum Cation - Sum Anions) / (Sum Cations + Sum Anions)

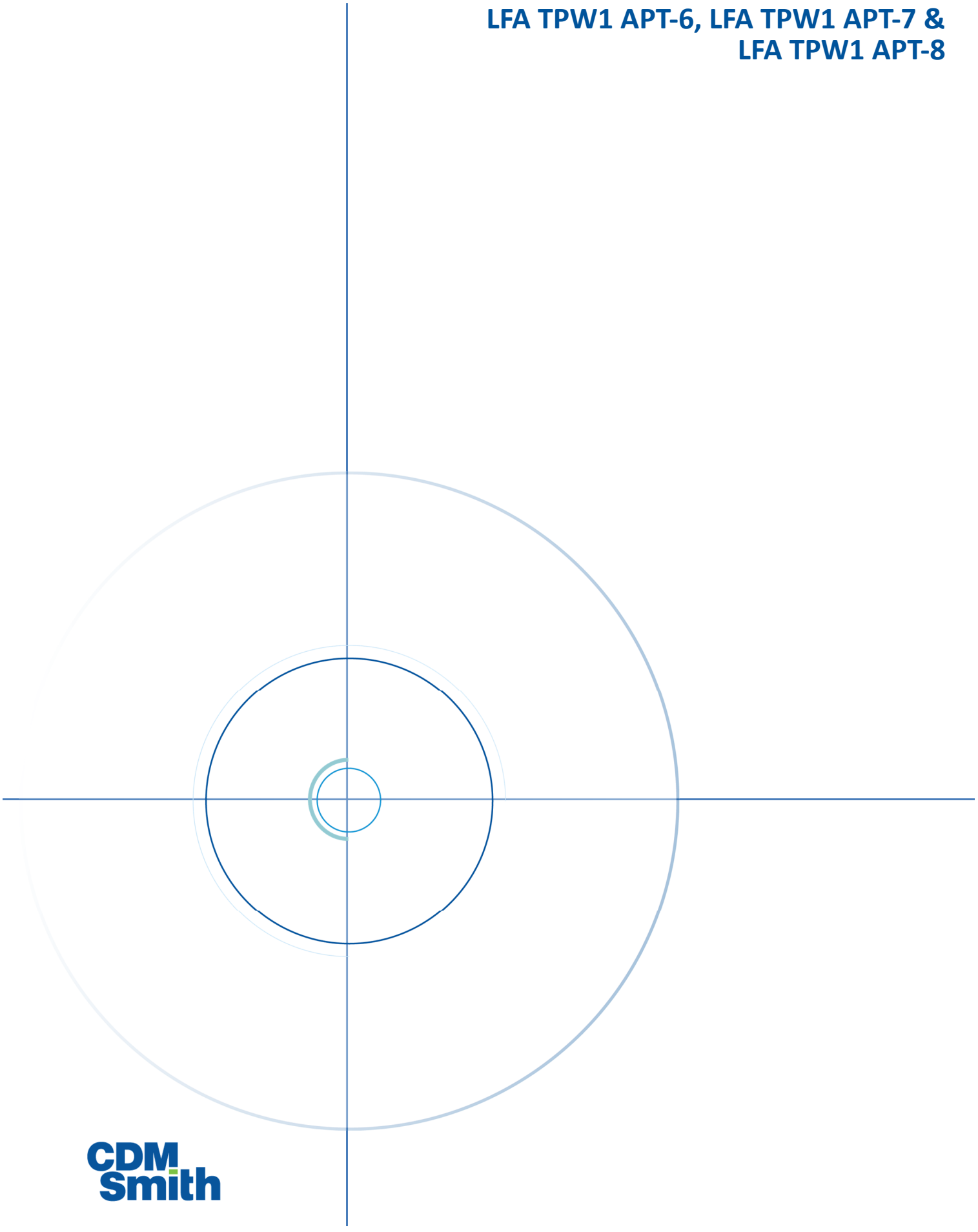
Cations	mg/L	meq/L	Anions	mg/L	meq/L
Calcium		20.039	Carbonate		50
Magnesium		12.152	Sulfate		48.04
Sodium		22.99	Chloride		35.45
Potassium		39.1	Bicarbonate		50

Cations	mg/L	meq/L	Anions	mg/L	meq/L
Calcium	150	7.49	Carbonate	5	0.10
Magnesium	25	2.06	Sulfate	280	5.83
Sodium	15	0.65	Chloride	19	0.54
Potassium	2	0.05	Bicarbonate	210	4.20
	Sum	10.25		Sum	10.66
			% Difference =	2.00	

Alkalinity	210
TDS	670

This Anion-Cation Balance calculation spreadsheet is provided as a courtesy to our clients upon request. This spreadsheet only accounts for the major ions measured and may not accurately reflect all possible influences. Therefore, Advanced Environmental Laboratories, Inc. assumes no legal liability or responsibility for any errors or omissions in the information or for any loss or damage resulting from the use of any information contained on this form.

LFA TPW1 APT-6, LFA TPW1 APT-7 & LFA TPW1 APT-8



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May 5, 2017

Jason Mills
CDM Smith
2301 Mailand Center Parkway
Suite 300
Maitland, FL 32751

RE: Workorder: G1703345 OCALA LFA APT

Dear Jason Mills:

Enclosed are the analytical results for sample(s) received by the laboratory on Monday, April 24, 2017. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report. The analytical results for the samples contained in this report were submitted for analysis as outlined by the Chain of Custody and results pertain only to these samples.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Enclosures

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SAMPLE SUMMARY

Workorder: G1703345 OCALA LFA APT

Lab ID	Sample ID	Matrix	Date Collected	Date Received
G1703345001	LFA TW1 APT-7	Water	4/23/2017 11:58	4/24/2017 14:20
G1703345002	LFA TW1 APT-6	Water	4/22/2017 12:10	4/24/2017 14:20
G1703345003	LFA TW1 APT-8	Water	4/24/2017 10:10	4/24/2017 14:20
G1703345004	LFA TW1 APT-7	Drinking Water	4/23/2017 11:58	4/24/2017 14:20
G1703345005	LFA TW1 APT-6	Drinking Water	4/22/2017 12:10	4/24/2017 14:20
G1703345006	LFA TW1 APT-8	Drinking Water	4/24/2017 10:10	4/24/2017 14:20

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ANALYTICAL RESULTS

Workorder: G1703345 OCALA LFA APT

Lab ID: **G1703345001** Date Received: 04/24/17 14:20 Matrix: Water
Sample ID: **LFA TW1 APT-7** Date Collected: 04/23/17 11:58

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: E200.7 Analysis,Waters	Preparation Method: EPA 200.7 Analytical Method: EPA 200.7							
Calcium	**150**		**mg/L**	**1**	0.50	0.16	4/27/2017 21:41	J
Magnesium	**25**		**mg/L**	**1**	0.20	0.021	4/27/2017 21:41	J
Total Hardness (as CaCO3)	**470**		**mg/L**	**1**	0.16	0.10	4/27/2017 21:41	J
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Iron	**0.074**	**I**	**mg/L**	**1**	0.20	0.030	4/26/2017 19:54	J
Potassium	**1.9**		**mg/L**	**1**	0.20	0.16	4/26/2017 19:54	J
Sodium	**15**		**mg/L**	**1**	0.20	0.16	4/26/2017 19:54	J
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**19**		**mg/L**	**1**	5.0	0.50	4/25/2017 06:28	G
Sulfate	**290**		**mg/L**	**6**	30	1.6	4/26/2017 21:47	G
Analysis Desc: Alkalinity,SM2320B,Water	Analytical Method: SM 2320B							
Alkalinity, Bicarbonate	**210**		**mg/L**	**1**	5.0	5.0	5/2/2017 11:10	G
Alkalinity, Carbonate	**5.0**	**U**	**mg/L**	**1**	5.0	5.0	5/2/2017 11:10	G
Alkalinity, Total	**210**		**mg/L**	**1**	5.0	5.0	5/2/2017 11:10	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**650**		**mg/L**	**1**	5.0	5.0	4/27/2017 15:07	G

Lab ID: **G1703345002** Date Received: 04/24/17 14:20 Matrix: Water
Sample ID: **LFA TW1 APT-6** Date Collected: 04/22/17 12:10

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								

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ANALYTICAL RESULTS

Workorder: G1703345 OCALA LFA APT

Lab ID: **G1703345002** Date Received: 04/24/17 14:20 Matrix: Water
Sample ID: **LFA TW1 APT-6** Date Collected: 04/22/17 12:10

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Analysis Desc: E200.7 Analysis,Waters	Preparation Method: EPA 200.7 Analytical Method: EPA 200.7							
Calcium	**150**		**mg/L**	**1**	0.50	0.16	4/27/2017 21:45	J
Magnesium	**24**		**mg/L**	**1**	0.20	0.021	4/27/2017 21:45	J
Total Hardness (as CaCO3)	**470**		**mg/L**	**1**	0.16	0.10	4/27/2017 21:45	J
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Iron	**0.075**	**I**	**mg/L**	**1**	0.20	0.030	4/26/2017 19:59	J
Potassium	**1.9**		**mg/L**	**1**	0.20	0.16	4/26/2017 19:59	J
Sodium	**15**		**mg/L**	**1**	0.20	0.16	4/26/2017 19:59	J
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**19**		**mg/L**	**1**	5.0	0.50	4/25/2017 06:51	G
Sulfate	**290**		**mg/L**	**6**	30	1.6	4/26/2017 22:10	G
Analysis Desc: Alkalinity,SM2320B,Water	Analytical Method: SM 2320B							
Alkalinity, Bicarbonate	**210**		**mg/L**	**1**	5.0	5.0	5/2/2017 11:10	G
Alkalinity, Carbonate	**5.0**	**U**	**mg/L**	**1**	5.0	5.0	5/2/2017 11:10	G
Alkalinity, Total	**210**		**mg/L**	**1**	5.0	5.0	5/2/2017 11:10	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**650**		**mg/L**	**1**	5.0	5.0	4/27/2017 15:07	G

Lab ID: **G1703345003** Date Received: 04/24/17 14:20 Matrix: Water
Sample ID: **LFA TW1 APT-8** Date Collected: 04/24/17 10:10

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
METALS								
Analysis Desc: E200.7 Analysis,Waters	Preparation Method: EPA 200.7 Analytical Method: EPA 200.7							

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ANALYTICAL RESULTS

Workorder: G1703345 OCALA LFA APT

Lab ID: **G1703345003** Date Received: 04/24/17 14:20 Matrix: Water
Sample ID: **LFA TW1 APT-8** Date Collected: 04/24/17 10:10

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
Calcium	**140**		**mg/L**	**1**	0.50	0.16	4/27/2017 21:50	J
Magnesium	**24**		**mg/L**	**1**	0.20	0.021	4/27/2017 21:50	J
Total Hardness (as CaCO3)	**460**		**mg/L**	**1**	0.16	0.10	4/27/2017 21:50	J
Analysis Desc: SW846 6010B Analysis,Water	Preparation Method: SW-846 3010A Analytical Method: SW-846 6010							
Iron	**0.088**	**I**	**mg/L**	**1**	0.20	0.030	4/26/2017 20:03	J
Potassium	**1.9**		**mg/L**	**1**	0.20	0.16	4/26/2017 20:03	J
Sodium	**15**		**mg/L**	**1**	0.20	0.16	4/26/2017 20:03	J
WET CHEMISTRY								
Analysis Desc: IC,E300.0,Water	Analytical Method: EPA 300.0							
Chloride	**17**	**I**	**mg/L**	**6**	30	3.0	4/27/2017 00:02	G
Sulfate	**280**		**mg/L**	**6**	30	1.6	4/27/2017 00:02	G
Analysis Desc: Alkalinity,SM2320B,Water	Analytical Method: SM 2320B							
Alkalinity, Bicarbonate	**210**		**mg/L**	**1**	5.0	5.0	5/2/2017 11:10	G
Alkalinity, Carbonate	**5.0**	**U**	**mg/L**	**1**	5.0	5.0	5/2/2017 11:10	G
Alkalinity, Total	**210**		**mg/L**	**1**	5.0	5.0	5/2/2017 11:10	G
Analysis Desc: Tot Dissolved Solids,SM2540C	Analytical Method: SM 2540 C							
Total Dissolved Solids	**670**		**mg/L**	**1**	5.0	5.0	4/27/2017 15:07	G

Lab ID: **G1703345004** Date Received: 04/24/17 14:20 Matrix: Drinking Water
Sample ID: **LFA TW1 APT-7** Date Collected: 04/23/17 11:58

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
WET CHEMISTRY								
Analysis Desc: Sulfide,SM4500S-D,Aqueous	Analytical Method: SM 4500-S D							
Hydrogen Sulfide	**6.4**		**mg/L**	**10**	0.50	0.083	4/25/2017 10:00	T
Sulfide	**6.0**		**mg/L**	**10**	0.50	0.083	4/25/2017 10:00	T

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ANALYTICAL RESULTS

Workorder: G1703345 OCALA LFA APT

Lab ID: **G1703345005** Date Received: 04/24/17 14:20 Matrix: Drinking Water
Sample ID: **LFA TW1 APT-6** Date Collected: 04/22/17 12:10

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
WET CHEMISTRY								
Analysis Desc: Sulfide,SM4500S-D,Aqueous	Analytical Method: SM 4500-S D							
Hydrogen Sulfide	**6.0**		**mg/L**	**10**	0.50	0.083	4/25/2017 10:00	T
Sulfide	**5.7**		**mg/L**	**10**	0.50	0.083	4/25/2017 10:00	T

Lab ID: **G1703345006** Date Received: 04/24/17 14:20 Matrix: Drinking Water
Sample ID: **LFA TW1 APT-8** Date Collected: 04/24/17 10:10

Sample Description: Location:

Parameters	Results	Qual	Units	DF	Adjusted PQL	Adjusted MDL	Analyzed	Lab
WET CHEMISTRY								
Analysis Desc: Sulfide,SM4500S-D,Aqueous	Analytical Method: SM 4500-S D							
Hydrogen Sulfide	**6.4**		**mg/L**	**10**	0.50	0.083	4/25/2017 10:00	T
Sulfide	**6.0**		**mg/L**	**10**	0.50	0.083	4/25/2017 10:00	T

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ANALYTICAL RESULTS QUALIFIERS

Workorder: G1703345 OCALA LFA APT

PARAMETER QUALIFIERS

U	The compound was analyzed for but not detected.
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

LAB QUALIFIERS

G	DOH Certification #E82001(AEL-G)(FL NELAC Certification)
J	DOH Certification #E82574(AEL-JAX)(FL NELAC Certification)
T	DOH Certification #E84589(AEL-T)(FL NELAC Certification)

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QUALITY CONTROL DATA

Workorder: G1703345 OCALA LFA APT

QC Batch: WCAg/4752 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Prepared:
Associated Lab Samples: G1703345001, G1703345002

METHOD BLANK: 2334159

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
Chloride	mg/L	0.50	0.50	U
Sulfate	mg/L	0.27	0.27	U

METHOD BLANK: 2334586

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
Chloride	mg/L	0.50	0.50	U
Sulfate	mg/L	0.27	0.27	U

LABORATORY CONTROL SAMPLE: 2334155

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY						
Chloride	mg/L	20	20	99	90-110	
Sulfate	mg/L	20	21	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2334157 2334158 Original: G1703330001

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
WET CHEMISTRY											
Chloride	mg/L	19	11	31	31	108	109	90-110	0	10	

QC Batch: WCAt/8225 Analysis Method: SM 4500-S D
QC Batch Method: SM 4500-S D Prepared:
Associated Lab Samples: G1703345004, G1703345005, G1703345006

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QUALITY CONTROL DATA

Workorder: G1703345 OCALA LFA APT

METHOD BLANK: 2334512

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
Sulfide	mg/L	0.0083	0.0083	U

LABORATORY CONTROL SAMPLE: 2334511

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY						
Sulfide	mg/L	0.4	0.38	96	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2334513 2334514 Original: G1703229003

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
WET CHEMISTRY											
Sulfide	mg/L	5.5	0.4	5.8	5.8	98	91	90-110	0	10	

QC Batch: DGMj/2894 Analysis Method: SW-846 6010
QC Batch Method: SW-846 3010A Prepared: 04/26/2017 03:30
Associated Lab Samples: G1703345001, G1703345002, G1703345003

METHOD BLANK: 2334666

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
METALS				
Iron	mg/L	0.030	0.030	U
Potassium	mg/L	0.16	0.16	U
Sodium	mg/L	0.16	0.16	U

LABORATORY CONTROL SAMPLE: 2334667

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
METALS						

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QUALITY CONTROL DATA

Workorder: G1703345 OCALA LFA APT

LABORATORY CONTROL SAMPLE: 2334667

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron	mg/L	25	26	101	80-120	
Potassium	mg/L	29	29	101	80-120	
Sodium	mg/L	50	50	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2334668 2334669 Original: J1704142004

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
METALS											
Iron	mg/L	0	25	34	34	134	132	75-125	1	20	
Potassium	mg/L	0	29	34	34	118	117	75-125	0	20	
Sodium	mg/L	0	50	79	79	157	156	75-125	0	20	

QC Batch: DGMj/2899 Analysis Method: EPA 200.7

QC Batch Method: EPA 200.7 Prepared: 04/27/2017 03:30

Associated Lab Samples: G1703345001, G1703345002, G1703345003

METHOD BLANK: 2335841

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
METALS				
Calcium	mg/L	0.16	0.16	U
Magnesium	mg/L	0.021	0.021	U

LABORATORY CONTROL SAMPLE: 2335842

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
METALS						
Calcium	mg/L	25	25	99	85-115	
Magnesium	mg/L	25	24	96	85-115	

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QUALITY CONTROL DATA

Workorder: G1703345 OCALA LFA APT

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2335843 2335844 Original: J1704149005

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
METALS											
Calcium	mg/L	25	25	51	51	100	101	70-130	0	20	
Magnesium	mg/L	11	25	36	35	98	96	70-130	1	20	

QC Batch: WCAg/4778 Analysis Method: EPA 300.0

QC Batch Method: EPA 300.0 Prepared:

Associated Lab Samples: G1703345001, G1703345002, G1703345003

METHOD BLANK: 2336373

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
Chloride	mg/L	0.50	0.50	U
Sulfate	mg/L	0.27	0.27	U

METHOD BLANK: 2336377

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
Chloride	mg/L	0.50	0.50	U
Sulfate	mg/L	0.27	0.27	U

LABORATORY CONTROL SAMPLE: 2336372

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY						
Chloride	mg/L	20	20	101	90-110	
Sulfate	mg/L	20	21	104	90-110	

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QUALITY CONTROL DATA

Workorder: G1703345 OCALA LFA APT

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2336375 2336376 Original: G1703359003

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
WET CHEMISTRY											
Sulfate	mg/L	68	11	79	79	101	101	90-110	0	10	

QC Batch: WCAg/4788 Analysis Method: SM 2540 C

QC Batch Method: SM 2540 C Prepared:

Associated Lab Samples: G1703345001, G1703345002, G1703345003

METHOD BLANK: 2337199

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
Total Dissolved Solids	mg/L	5.0	5.0	U

METHOD BLANK: 2337201

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
Total Dissolved Solids	mg/L	5.0	5.0	U

LABORATORY CONTROL SAMPLE: 2337197

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY						
Total Dissolved Solids	mg/L	330	330	100		

SAMPLE DUPLICATE: 2337200 Original: G1703352005

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	Qualifiers
WET CHEMISTRY						
Total Dissolved Solids	mg/L	120	120	5	5	

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QUALITY CONTROL DATA

Workorder: G1703345 OCALA LFA APT

QC Batch: WCAg/4816 Analysis Method: SM 2320B

QC Batch Method: SM 2320B Prepared:

Associated Lab Samples: G1703345001, G1703345002, G1703345003

METHOD BLANK: 2340555

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
Alkalinity, Total	mg/L	5.0	5.0	U

METHOD BLANK: 2340560

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
WET CHEMISTRY				
Alkalinity, Total	mg/L	5.0	5.0	U

LABORATORY CONTROL SAMPLE: 2340557

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
WET CHEMISTRY						
Alkalinity, Total	mg/L	100	95	95	75-125	

SAMPLE DUPLICATE: 2340558 Original: G1703439001

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	Qualifiers
WET CHEMISTRY						
Alkalinity, Total	mg/L	220	220	1	20	

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: G1703345 OCALA LFA APT

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
G1703345001	LFA TW1 APT-7			EPA 300.0	WCAg/4752
G1703345002	LFA TW1 APT-6			EPA 300.0	WCAg/4752
G1703345004	LFA TW1 APT-7			SM 4500-S D	WCAt/8225
G1703345005	LFA TW1 APT-6			SM 4500-S D	WCAt/8225
G1703345006	LFA TW1 APT-8			SM 4500-S D	WCAt/8225
G1703345001	LFA TW1 APT-7	SW-846 3010A	DGMj/2894	SW-846 6010	ICPj/1956
G1703345002	LFA TW1 APT-6	SW-846 3010A	DGMj/2894	SW-846 6010	ICPj/1956
G1703345003	LFA TW1 APT-8	SW-846 3010A	DGMj/2894	SW-846 6010	ICPj/1956
G1703345001	LFA TW1 APT-7	EPA 200.7	DGMj/2899	EPA 200.7	ICPj/1962
G1703345002	LFA TW1 APT-6	EPA 200.7	DGMj/2899	EPA 200.7	ICPj/1962
G1703345003	LFA TW1 APT-8	EPA 200.7	DGMj/2899	EPA 200.7	ICPj/1962
G1703345001	LFA TW1 APT-7			EPA 300.0	WCAg/4778
G1703345002	LFA TW1 APT-6			EPA 300.0	WCAg/4778
G1703345003	LFA TW1 APT-8			EPA 300.0	WCAg/4778
G1703345001	LFA TW1 APT-7			SM 2540 C	WCAg/4788
G1703345002	LFA TW1 APT-6			SM 2540 C	WCAg/4788
G1703345003	LFA TW1 APT-8			SM 2540 C	WCAg/4788
G1703345001	LFA TW1 APT-7			SM 2320B	WCAg/4816
G1703345002	LFA TW1 APT-6			SM 2320B	WCAg/4816
G1703345003	LFA TW1 APT-8			SM 2320B	WCAg/4816

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Client Name: Jason Mills Consulting | Project Name: Ocala LFA APT
Address: 2301 Maitland Center Pkwy # 300 | P.O. Number or Project Number:
Maitland, FL 32751 | FDEP Facility No:
Phone: 407-660-2552 | Project Address:
FAX: 407-875-1161
Contact: Jason Mills | Special Instructions:
Sampled By: Jason Mills
Turn Around Time: ☑ STANDARD ☐ RUSH
Page: 1 of 1 | ☐ ADaPT ☐ EQuIS ☐ Other

SAMPLE ID	SAMPLE DESCRIPTION	Grab Comp	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. COUNT	BOTTLE SIZE & TYPE	ANALYSIS REQUIRED: Sulfide	TDS, Alk, Cl, SO4	Metals								LABORATORY I.D. NUMBER
							PRESERVATION	NaOH ZnAc	4°	HNO3								
LFATW1-APT-7	LFA TW1 - APT - 7	G	4/23/17	1158	GW	3		✓	✓	✓								001
LFATW1-APT-6	LFA TW1 - APT - 6	G	4/22/17	12:10	GW	3		✓	✓	✓								002
LFATW1-APT-8	LFATW1 - APT - 8	G	4/24/17	10:10	GW	3		✓	✓	✓								003
								X										004
								X										005
								X										006

Matrix Code: WW = wastewater SW = surface water GW = ground water DW = drinking water O = oil A = air SO = soil SL = sludge
Preservation Code: I = ice H=(HCl) S = (H2SO4) N = (HNO3) T = (Sodium Thiosulfate)

Received on Ice ☑ Yes ☐ No ☑ Temp taken from sample ☐ Temp from blank ☑ Where required, pH checked
Temperature when received 2.1 (in degrees celcius)
DCN: AD-051 Form last revised 04/30/2015
Device used for measuring Temp by unique identifier (circle IR temp gun used) J: 9A G: LT-1 LT-2 T: 10A A: 3A M: 3A S: 1V

	Relinquished by:	Date	Time	Received by:	Date	Time
1	Jason M Mills	4/24/17	1327	DC	4/24/17	13:27
2					4/24/17	1420
3						
4						

FOR DRINKING WATER USE:
PWS ID:
Contact Person: Phone:
Supplier of Water:
Site-Address:

Anion - Cation Balance
SM1030F

Lab Code: **G1703345-002**

% difference = 100 X (Sum Cation - Sum Anions) / (Sum Cations + Sum Anions)

Cations	mg/L	meq/L	Anions	mg/L	meq/L
Calcium		20.039	Carbonate		50
Magnesium		12.152	Sulfate		48.04
Sodium		22.99	Chloride		35.45
Potassium		39.1	Bicarbonate		50

Cations	mg/L	meq/L	Anions	mg/L	meq/L
Calcium	150	7.49	Carbonate	5	0.10
Magnesium	24	1.97	Sulfate	290	6.04
Sodium	15	0.65	Chloride	19	0.54
Potassium	1.9	0.05	Bicarbonate	210	4.20
	Sum	10.16		Sum	10.87
			% Difference =	3.38	

Alkalinity	210
TDS	650

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Anion - Cation Balance
SM1030F

Lab Code: **G1703345-002**

% difference = 100 X (Sum Cation - Sum Anions) / (Sum Cations + Sum Anions)

Cations	mg/L	meq/L	Anions	mg/L	meq/L
Calcium		20.039	Carbonate		50
Magnesium		12.152	Sulfate		48.04
Sodium		22.99	Chloride		35.45
Potassium		39.1	Bicarbonate		50

Cations	mg/L	meq/L	Anions	mg/L	meq/L
Calcium	150	7.49	Carbonate	5	0.10
Magnesium	24	1.97	Sulfate	290	6.04
Sodium	15	0.65	Chloride	19	0.54
Potassium	1.9	0.05	Bicarbonate	210	4.20
	Sum	10.16		Sum	10.87
			% Difference =	3.38	

Alkalinity	210
TDS	650

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Anion - Cation Balance
SM1030F

Lab Code: **G1703345-003**

% difference = 100 X (Sum Cation - Sum Anions) / (Sum Cations + Sum Anions)

Cations	mg/L	meq/L	Anions	mg/L	meq/L
Calcium		20.039	Carbonate		50
Magnesium		12.152	Sulfate		48.04
Sodium		22.99	Chloride		35.45
Potassium		39.1	Bicarbonate		50

Cations	mg/L	meq/L	Anions	mg/L	meq/L
Calcium	140	6.99	Carbonate	5	0.10
Magnesium	24	1.97	Sulfate	280	5.83
Sodium	15	0.65	Chloride	17	0.48
Potassium	1.9	0.05	Bicarbonate	210	4.20
	Sum	9.66		Sum	10.61
			% Difference =	4.66	

Alkalinity	210
TDS	650

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