

SCS ENGINEERS

June 10, 2011
File No. 09207049.06

Steven G. Morgan
Solid Waste Section Southwest District
Florida Department of Environmental Protection
13051 North Telecom Parkway
Temple Terrace, Florida 33637-0926

Subject: Citrus County Central Class I Landfill Phase 3 Expansion
Certification of Construction - Request for Additional Information No. 1
Permit No.: 21375-013-SC/01,
Citrus County WACS No.: SWD/09/39859

Dear Mr. Morgan:

On behalf of the Citrus County Solid Waste Division, SCS Engineers (SCS) submits the following responses to your request for additional information in a letter dated May 12, 2011. For ease of review, each Florida Department of Environmental Protection (FDEP) comments are reiterated in bold type, followed by our response.

We have provided revised submittals, or replacement pages to the submittals, using ~~striketrough~~ and underline format, to facilitate review. The following documents are enclosed:

1. Geogrid Panel Layout Drawing
2. Video Inspection Tape and Report - Revised
3. Drawings 18 & 19 of 21 - Revised
4. Drawing 20 of 21 - Revised
5. Boundary Survey - Revised
6. Driller Logs - Revised
7. Potentiometric Map

Dept. Of Environmental Protection

JUN 10 2011

SECTION 6 – GEOGRID INSTALLATION REPORT:

Southwest District

1. **Section 6.4: Specification Section 31 32 19-1.04.D. specified that “a layout drawing reflecting as-built conditions and related installation details (i.e. panel layout, penetrations) of the actual geogrid system” be submitted with the Record Drawings. Please verify whether a panel layout drawing was prepared as specified and revise this section and provide the panel layout drawing, as applicable.**

Response: The geogrid panel layout drawings are included in Attachment A.



2. **Attachment 12-3 – Video Inspection Tape and Report:** As indicated in the video inspection report and confirmed by the Department's review of the video provided, the inspection camera was submerged under liquid for those portions of the leachate collection, sump, and cleanout pipes that were not located on the side slopes of Phase 3. The lack of restriction in movement of the camera in the pipe does appear to be an indication that the pipes were not obstructed. However, in the sections of the pipes where the camera was submerged and vision obscured, it does not appear that the absence of potential construct defects (e.g. pipe crushing, pipe separation, pipe buckling, etc) can be confirmed. Please either conduct a video re-inspection of leachate system, with liquids removed from the system to allow the constructed pipe to be seen and its integrity confirmed, or provide alternate supporting information that the permittee relied upon to verify the integrity of the constructed leachate system piping.

Response: A video re-inspection was conducted on May 12, 2011 showing that the pipe is defect free. Please refer to Attachment B for the revised report and footage in DVD format.

CENTRAL LANDFILL PHASE 3 EXPANSION PROJECT CONSTRUCTION RECORD DRAWINGS

SCS Engineers Plan Set:

3. **Drawings 18 & 19 of 21:** The note on these sheets states "Actual Field Installation Differs From HT/DcR Engineering Design Documents." As appropriate, please either revise these drawings to show the noted installation differences or provide a narrative description of the revision that cannot be identified on the drawing. Please also explain how the differences "... have been determined to not significantly impact the original permitted concept or design."

Response: Drawings 18 and 19 have been revised to show the noted installation differences. Please refer to Attachment A.

4. **Drawing 20 of 21:** There appear to be two Repair #R-152 shown on this drawing. Please verify and revise this drawing, as appropriate.

Response: Please refer to Attachment A for the revised Drawing 20 of 21.

Berglund Construction Services, LLC Plan Set:

5. **Drawing 8.1:** Based on a review of the drawing scale and the elevations reported for the leachate collection pipe on this drawing, it appears that the leachate collection piping was installed at approximately a 0.5% slope, while Drawing 4 of this plan set appears to indicate that the subgrade for the leachate collection corridor was

constructed at an approximate 1% slope. The SCS record drawings (Drawings 4-6 of 21) also appear to indicate that the leachate collection corridor and piping were installed at an approximate 1% slope. Please verify this apparent inconsistency and revise this drawing, as appropriate.

Response: Please refer to Attachment A for the revised drawing 8.1.

6. Groundwater Monitoring Well Installation, Citrus County Central Landfill..., prepared by SCS Engineers, dated March 2, 2011 (submitted under separate cover March 4, 2011)

Rule 62-701.320(5)(b), F.A.C. Please address the comments in John Morris' May 10, 2011 memorandum (attached) regarding this submittal. You may call Mr. Morris at (813) 632-7600, extension 336, to discuss the items in his memorandum.

a. Part #E.3./#E.5.b./#E.5.d.

Deficiency:

- The survey drawing was not signed/sealed by a Florida Licensed Professional Surveyor and Mapper.
- The survey drawing provided top of well casing elevations for wells MW -20 and MW -21 referenced to NA VD 1988 while the top of well casing elevations for existing wells and piezometers were referenced to NGVD 1929.
- The "Log of Monitoring Well Construction" forms provide a single turbidity measurement that is assumed to represent conditions recorded at the end of well development activities. It is noted that the "Sampling Log" forms provided in Attachment E for the January 19, 2011 and February 17, 2011 sampling events indicate elevated turbidity values were observed at the beginning of well purging activities.
- The information provided on the "Monitoring Well Completion Report" forms appears to indicate a screened interval at well MW-20 of 13.9 to (-6.1) ft NAVD and at well MW-21 of 9.79 to (-10.21) ft NAVD. This screened interval range was not compared to the target elevation of 15 to (-5) ft NGVD.
- The description provided in the "drill cuttings log" section of the two "State of Florida Well Completion Report" forms are identical [0-10 feet - orange, medium clay; 10-125 feet - tan, fine sand] and appear to be inconsistent with the description of lithology provided on the "Log of Monitoring Well Construction" forms.

Corrective Actions:

- (1) Please provide a signed and sealed copy of the Boundary Survey.

Response: A revised boundary survey that is signed and sealed is included in Attachment C.

- (2) Please provide a table that presents the elevations of the top of well casing elevations for all existing wells and piezometers at the facility that is referenced to a common datum.

Response: A revised signed and sealed boundary survey that lists the well casing elevation for all existing wells and piezometers at the facility that is referenced to a common datum is included in Attachment C.

- (3) Please provide additional description of the development activities conducted at wells MW -20 and MW -21 to allow the collection of representative ground water samples [purge rate, total volume purged, turbidity measurements recorded during development, etc.]. Please provide a discussion that evaluates whether wells MW-20 and MW-21 have been appropriately constructed and adequately developed to produce water that meets the purging criterion [<20 NTU] for future sampling events.

Response: Monitoring wells MW-20 and MW-21 are scheduled to be redeveloped in June 2011 prior to the July semi-annual monitoring event. The well MW-20 and MW-21 have been appropriately constructed to produce water that meets the purging criterion of < 20 NTU. The redevelopment of these wells is associated with shortening the purge time to reach the < 20 NTU turbidity value.

- (4) Please provide a discussion of the significance of the departure from the proposed well screen intervals and the ability of wells MW-20 and MW-21 to produce representative samples of the uppermost water-bearing unit at the facility.

Response: There is no significance to the departure from the proposed well screen intervals and the ability of wells MW-20 and MW-21 to produce representative samples of the uppermost water bearing unit at the facility. The top of the well screen elevation (ft NGVD) at MW-20 (13.9 ft NGVD) and MW-21 (9.8 ft NGVD) are above the high water table elevation since at least 2007. Groundwater elevation is not expected to rise above the top of the screen at these locations.

- (5) Please provide revisions to the appropriate attachment(s) to provide a consistent description of the lithology encountered during the installation of wells MW -20 and MW -21.

Response: The drillers logs have been revised to more appropriately reflect

the lithology at monitoring well MW-20 and MW-21. The revised driller logs included in Attachment D.

b. Parts #E.4./#E.5.c.

Deficiency:

- Six semi-volatile organic compounds referenced in Rule 62-701.510(8)(d), F.A.C. [the parameters listed in 40 CFR Part 258, Appendix II] were reported at elevated detection limits that do not demonstrate compliance with Class G-II ground water standards or ground water minimum criteria. Please refer to the attached table for these parameters.

Corrective Actions:

- (1) Please coordinate with Test America to determine if the results for the January 19, 2011 initial sampling event can be reported at lower detection limits to demonstrate compliance with ground water standards or minimum criteria. In the event that the laboratory can report at lower detection limits, please submit revised reports of results. For any parameter that cannot be reported at sufficiently lower detection limits, please conduct a supplemental sampling event using an appropriate analytical method and submit the results with the responses to these comments. Please submit the results of any supplemental sampling event in a manner that meets the reporting requirements of Specific Condition #E.10.a., of the referenced permits.

Response: The six semi-volatile organic compounds with elevated detection limits will be re-sampled during the July 2011 semi-annual groundwater monitoring event. The detection limits will demonstrate compliance with the Class G-II groundwater standards or groundwater minimum criteria.

c. Part #E.10.

Deficiency:

- Table 1 summarized results for Equipment Blank sample #39332 collected January 19, 2011, however the chain of custody form and Test America report of results do not include this sample.
- Table 1 summarized results for Trip Blank sample #39821 collected February 17, 2011, however the chain of custody form and Test America report of results do not include this sample.
- Table 1 indicated a trihalomethanes concentration of 2.1 ug/L for the sample collected from MW -21 on January 19, 2011; however the Test America report of results indicates trihalomethanes were not detected in this sample.

- A ground water surface elevation contour map was not provided for the January 19, 2011 or February 17, 2011 sampling events.
- Ground Water Monitoring Report Certification [Department Form #62-701.900(31)] was not provided for the January 19, 2011 or February 17, 2011 sampling events.

Corrective Actions:

- (1) Please submit a revised Table 1 and/or Test America report of results, as appropriate.

Response: Equipment Blank Sample #39332 and Trip Blank Sample #39821 were part of the 1st Semi-Annual Groundwater monitoring event at the facility that occurred at the same time as the initial sampling event.

- (2) Please submit ground water surface elevation contour maps using water levels measured at all existing monitor wells and piezometers during the January 19, 2011 and February 17, 2011 sampling events. If ground water levels were not measured at all wells during these initial sampling events, please conduct a supplemental round of ground water level measurements at all existing monitor wells and piezometers and submit a ground water surface elevation contour map constructed using this supplemental water level data.

Response: The groundwater elevation contour maps were submitted during the 1st 2011 Semi-Annual Groundwater Monitoring reports for the facility.

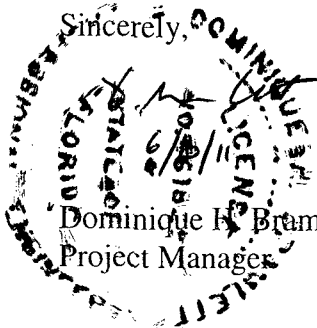
- (3) Please provide a discussion of the available water level data and indicate whether wells MW-20 and MW-21 were appropriately located to be downgradient from Phase 3 and the 7-acre closed cell, respectively.

Response: Based on the potentiometric maps that were submitted with the 1st 2011 Semi-Annual Groundwater Monitoring Report, Monitoring Wells MW-20 and MW-21 are located downgradient from Phase 3 and the 7-acre closed cell. Attachment E contains the potentiometric map from the 1st 2011 Semi-Annual Groundwater Monitoring Report.

- (4) Please provide a signed Department Form #62-701.900(31) for the January 19, 2011 and February 17, 2011 sampling events.

Response: The signed Department Form #62-701.900(31) was submitted during the 1st 2011 Semi-Annual Groundwater Monitoring reports for the facility.

Mr. Steven Morgan
June 10, 2011
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Sincerely,

Dominique H. Bramlett, P.E.
Project Manager


C. Ed Hilton, P.E.
Project Director
SCS ENGINEERS

DHB/CEH:dhb

cc: Susan Pelz, P.E., FDEP Tampa
Casey Stephens, Citrus County, P.O. Box 340, Lecanto, FL 34460-0340

Dept. Of Environmental Protection

JUN 10 2011

Southwest District

Attachment A

Revised Record Drawings
(Bound Separately)

FLORIDA DEPARTMENT OF
ENVIRONMENTAL PROTECTION
JUN 10 2011
SOUTHWEST DISTRICT
TAMPA

Attachment B

Video Inspection Tape and Report - Revised

FLORIDA DEPARTMENT OF
ENVIRONMENTAL PROTECTION

JUN 10 2011

SOUTHWEST DISTRICT
TAMPA

FLORIDA JETCLEAN

HIGH PRESSURE WATER JETTING
VIDEO PIPELINE INSPECTION
NO DIG POINT REPAIRS
WWW.FLORIDAJETCLEAN.COM

19019 FERN MEADOW LOOP
LUTZ, FL 33558
TEL: 800-226-8013 FAX: 813-926-4616
FLORIDAJETCLEAN@YAHOO.COM

Citrus County Solid Waste Phase 3 Expansion REVIDEO - LCS Lateral 1

FLORIDA DEPARTMENT OF
ENVIRONMENTAL PROTECTION

SUN 10 2011

SOUTHWEST DISTRICT
TAMPA

Work Performed May 2011

Conducted By:
Florida Jetclean
800-226-8013

FLORIDA JETCLEAN

HIGH PRESSURE WATER JETTING
VIDEO PIPELINE INSPECTION
NO DIG POINT REPAIRS
WWW.FLORIDAJETCLEAN.COM

19019 FERN MEADOW LOOP
LUTZ, FL 33558
TEL: 800-226-8013 FAX: 813-926-4616
FLORIDAJETCLEAN@YAHOO.COM

DATE : 5/24/2011
TO : Casey Stevens - Citrus County Solid Waste
FROM : Ralph Calistri (floridajetclean@yahoo.com)
SUBJECT : Citrus County Landfill - Phase 3 Expansion - LCS Lateral 1 Revideo

Florida Jetclean was remobilized to the Citrus County Landfill - Phase 3 Expansion to provide explosion-proof video-inspection services on Leachate Collection Lateral 1 on 5/12/2011. Please find included with this report the applicable CCTV survey list, pipe graphic reports, and the video-inspection footage in DVD format for further reference.

Explosion-Proof Video-Inspection:

The explosion-proof video-inspection of the Leachate Collection Lateral 1 after it was dewatered show that the pipe is defect free. There is a 37.4' long segment of this pipe beginning at the 150.3' mark downstream of the East cleanout, and continuing to the 187.7' mark downstream of the East cleanout, that has approximately 1" deep new sand that was not present during the initial inspection conducted after construction in January 2011. This sand did not stop the camera from passing through this area, and would not affect leachate flow through this area, but can be flushed from the pipe if required.

Please call us with questions or concerns.

Regards,



Ralph Calistri - Florida Jetclean

CCTV Surveys List for SWM

Number of surveys in this list is 2 as of Thursday, May 12, 2011

Unit of measure: ft

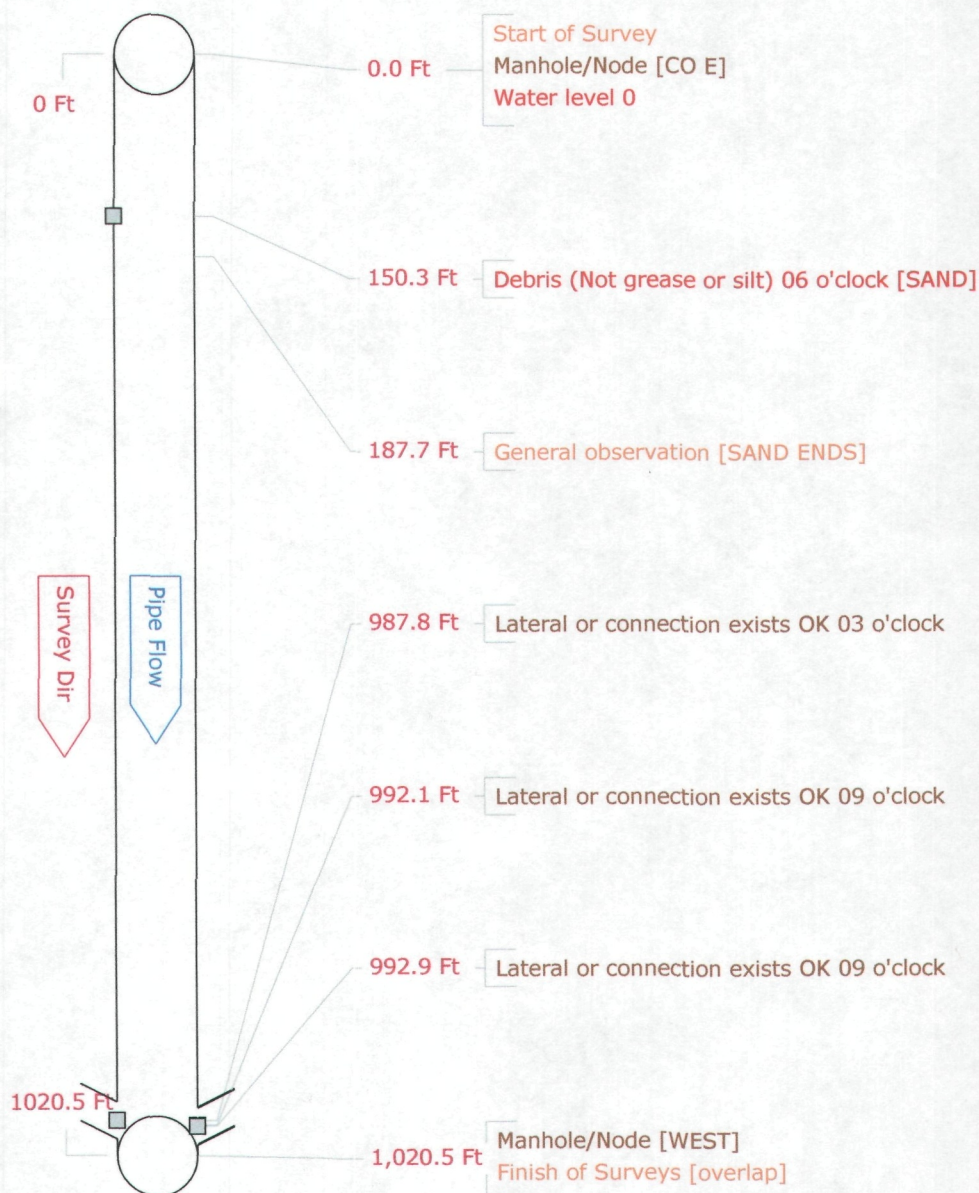
Setup	Date	Street	Start MH	Finish MH	Dir	Size inch	Pre Clean	Vid Cassette	Scheduled Length	Surveyed Length
1	5/12/2011	CITRUS COUNTY PHASE 3	CO E	WEST	D	8		1	1,020.5	1020.5
2	5/12/2011	CITRUS COUNTY PHASE 3	CO W	EAST	U	8		1	190.2	190.2
Total Scheduled Length									1,210.7	
Total Length Surveyed										1,210.7



FLORIDA JETCLEAN Phone: 1-800-226-8013 Fax: 813-926-4616

Pipe Graphic Report of PLR CO E A for SWM

Work Order	Contract	Video	1	Setup	1
Facility	Operator BMN	Van Ref	4	Surveyed On	05/12/2011
Street Name	CITRUS COUNTY PHASE 3	City	CITRUS COUNTY		
Location type	Berm				
Surface					
Survey purpose	Other (state in comments)	Weather	Dry		
Pipe Use	Other (state in comments)	Schedule length	1020.5 Ft	From	CO E
Shape	Circular	Size	8 by ins	To	WEST
Material	Other (state in comments)	Joint spacing	Ft	Direction	Downstream
Lining		Year laid		Pre-clean	Last cleaned
General note	HDPE LEACHATE COLLECTION			Structural	Service
Location note	1210.7 = TOTAL END TO END			Miscellaneous	Hydraulic
					Constructional



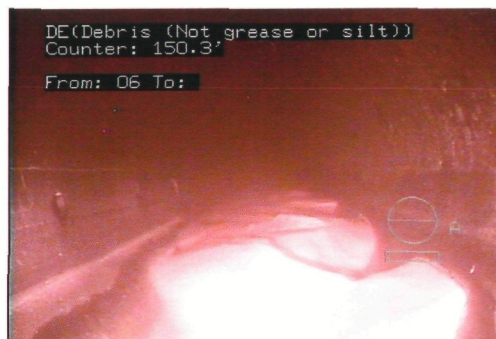
FLORIDA JETCLEAN
Phone: 1-800-226-8013
Fax: 813-926-4616

CCTV pictures of CO E A for SWM

Work Order	Video 1	Surveyed On 05/12/2011	Direction Downstream	Setup 1
Street Name CITRUS COUNTY PHASE 3	City Name CITRUS COUNTY	Weather Dry		
Location Berm	From Manhole CO E	To Manhole WEST		

Date: 05/12/2011
Distance: 150.3 Ft
Obs: Debris (Not grease or silt)

Comments:
SAND



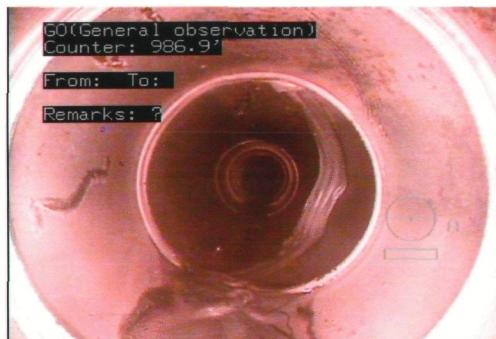
Date: 05/12/2011
Distance: 187.7 Ft
Obs: General observation

Comments:
SAND ENDS



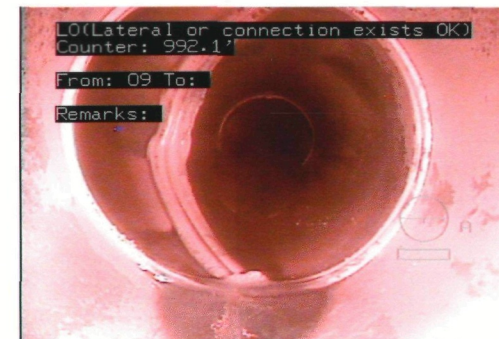
Date: 05/12/2011
Distance: 987.8 Ft
Obs: Lateral or connection exists OK

Comments:



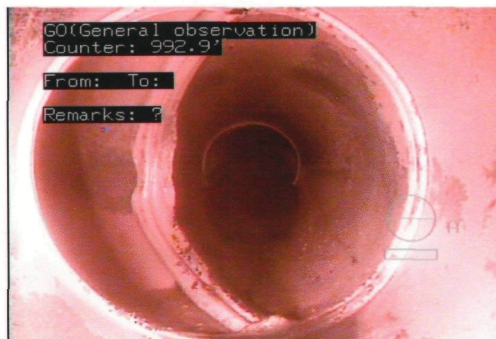
Date: 05/12/2011
Distance: 992.1 Ft
Obs: Lateral or connection exists OK

Comments:



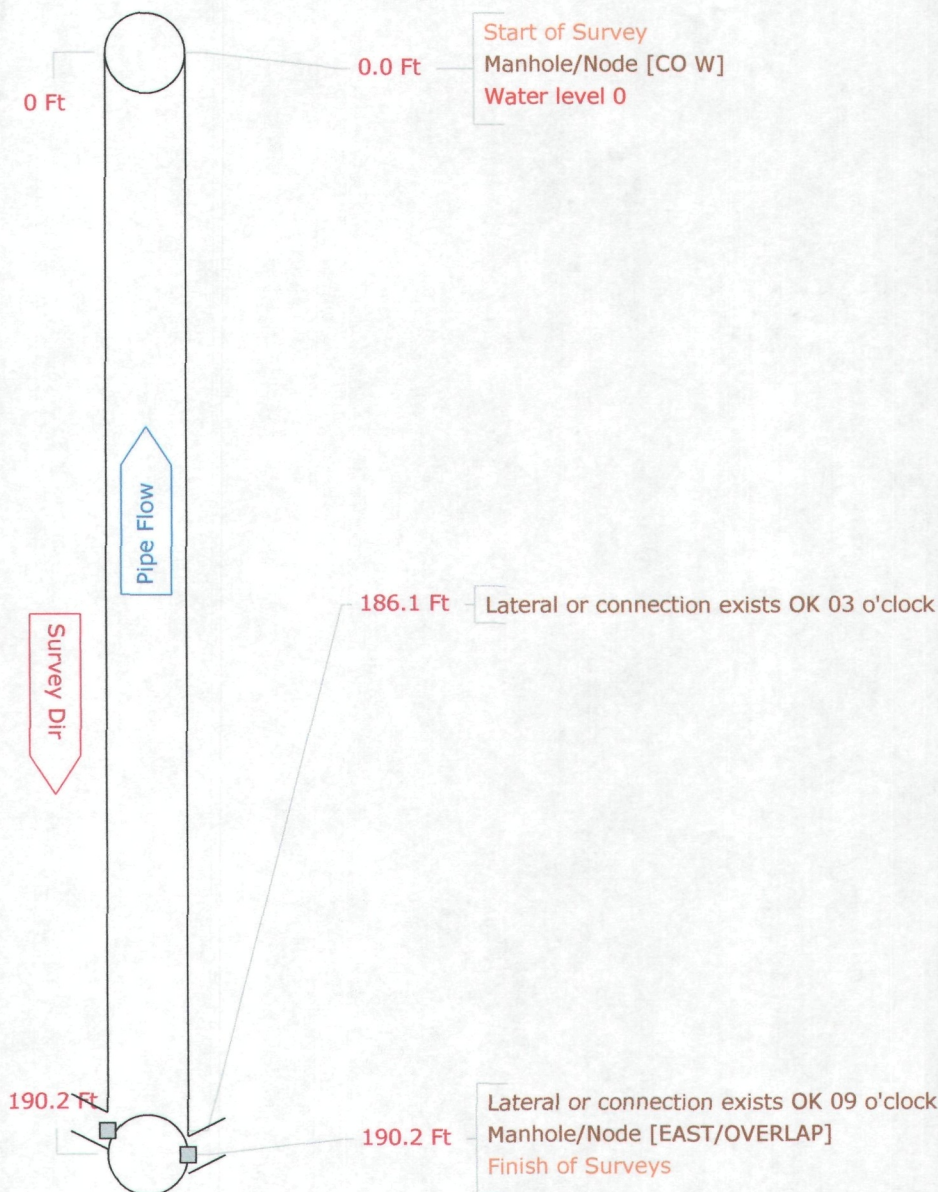
Date: 05/12/2011
Distance: 992.9 Ft
Obs: Lateral or connection exists OK

Comments:



Pipe Graphic Report of PLR EAST B for SWM

Work Order		Contract		Video 1	Setup 2
Facility		Operator BMN		Van Ref 4	Surveyed On 05/12/2011
Street Name	CITRUS COUNTY PHASE 3		City	CITRUS COUNTY	
Location type	Berm				
Surface					
Survey purpose	Other (state in comments)			Weather	Dry
Pipe Use	Other (state in comments)	Schedule length	190.2 Ft	From	CO W
Shape	Circular	Size 8	by ins	To	EAST
Material	Other (state in comments)	Joint spacing	Ft	Direction	Upstream
Lining		Year laid		Pre-clean	Last cleaned
General note	HDPE LEACHATE COLLECTION			Structural	Service Constructional
Location note	1210.7 TOTAL END TO END			Miscellaneous	Hydraulic



Dept. Of Environmental Protection

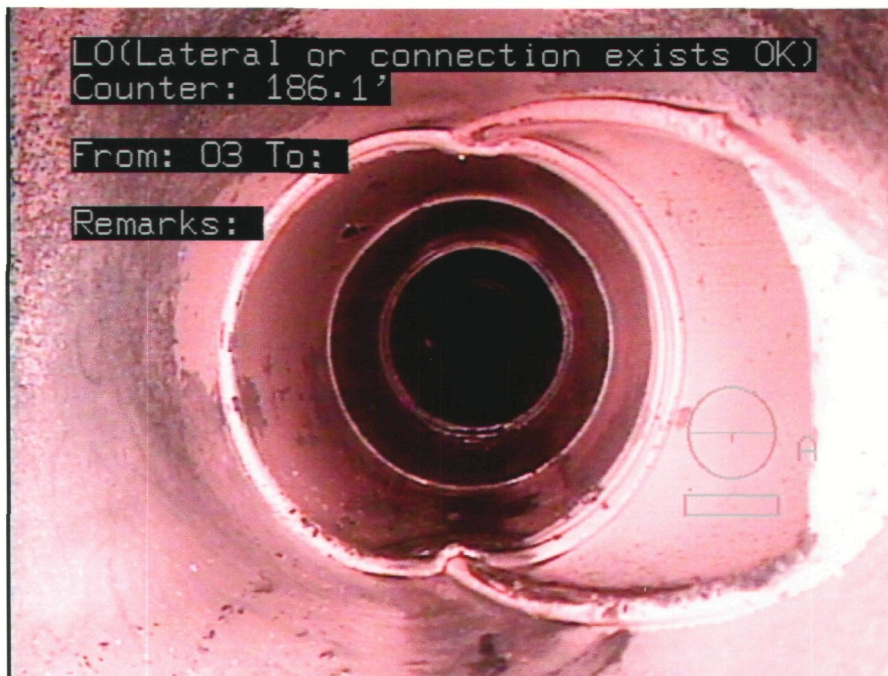
JUN 10 2011

Southwest District



FLORIDA JETCLEAN
Phone: 1-800-226-8013
Fax: 813-926-4616

Work Order	Surveyed On 05/12/2011	Setup 2
Street Name CITRUS COUNTY PHASE 3		Video 1
City Name CITRUS COUNTY	Weather Dry	
Location Berm		
From Manhole CO W	To Manhole EAST	Direction Upstream



Date: 05/12/2011

Distance: 186.1 Ft

Obs: Lateral or connection exists OK

Comments:



Date: 05/12/2011

Distance: 190.2 Ft

Obs: Lateral or connection exists OK

Comments:

ATTENTION



**A DVD CONTAINING
VIDEO IS
ALSO AVAILABLE
WITH THIS REPORT**

- To view this dvd please contact:

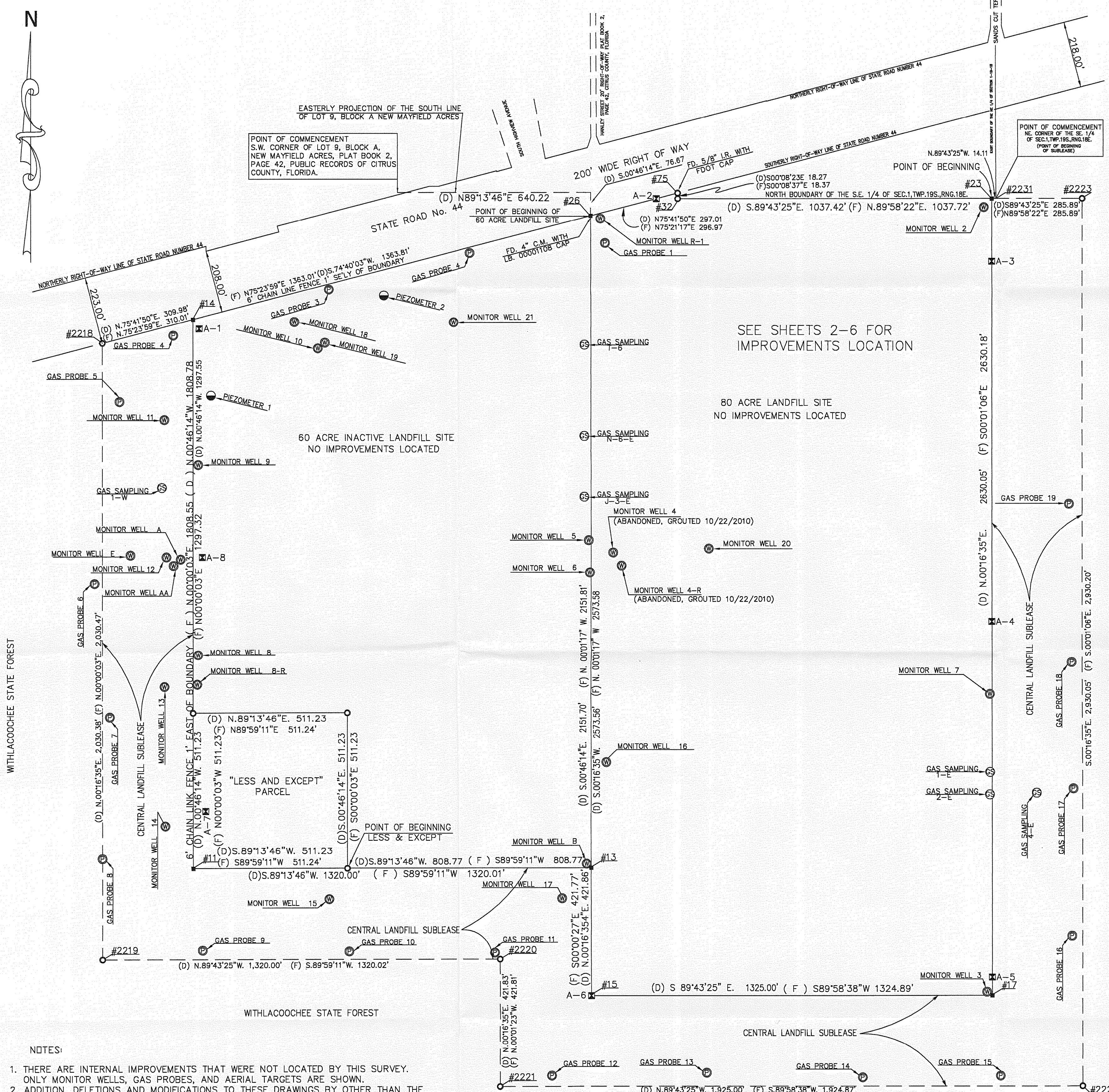
State of Florida
Department of Environmental Protection
Solid Waste Program
13051 North Telecom Parkway
Temple Terrace, FL 33637-0926
Phone: (813) 632-7600

Attachment C
Boundary Survey - Revised

FLORIDA DEPARTMENT OF
ENVIRONMENTAL PROTECTION

JUN 10 2011

SOUTHWEST DISTRICT
TAMPA



- NOTES:
- THERE ARE INTERNAL IMPROVEMENTS THAT WERE NOT LOCATED BY THIS SURVEY. ONLY MONITOR WELLS, GAS PROBES, AND AERIAL TARGETS ARE SHOWN.
 - ADDITION, DELETIONS AND MODIFICATIONS TO THESE DRAWINGS BY OTHER THAN THE SIGNING PARTY OR PARTIES IS PROHIBITED BY LAW WITHOUT THE WRITTEN CONSENT OF THE SIGNING PARTY OR PARTIES.
 - ELEVATIONS SHOWN HEREON ARE BASED ON THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD '29). REFERENCE BENCH MARK, FLORIDA DEPARTMENT OF TRANSPORTATION BENCH MARK No.54A, ELEVATION 115.36' NGVD '29.
 - THIS SURVEY WAS CONDUCTED WITHOUT THE BENEFIT OF A TITLE REPORT OR TITLE ABSTRACT AND THEREFORE MAY NOT NECESSARILY ASHOW ALL RIGHTS-OF-WAY, EASEMENTS OR OTHER ENCUMBRANCES OF RECORD.
 - BEARINGS SHOWN HEREON ARE BASED ON THE NORTH BOUNDARY OF THE SE 1/4 OF SECTION 1, TOWNSHIP 18 SOUTH, RANGE 18 EAST HAVING AN ASSUMED BEARING OF N.89°58'22"E.
 - HORIZONTAL COORDINATES SHOWN ON TABLES REFLECT FLORIDA STATE PLANE, WEST ZONE, NORTH AMERICAN DATUM OF 1983, (NSRS 2007) AND ARE BASED ON NATIONAL GEODETIC SURVEY CONTROL STATIONS "CITRUS 13" AND "CITRUS 14".

DESCRIPTION AS FURNISHED

A PORTION OF SECTION 1, TOWNSHIP 19 SOUTH, RANGE 18 EAST, TALLAHASSEE MERIDIAN, CITRUS COUNTY, FLORIDA, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCE AT THE NORTHEAST CORNER OF THE SOUTHEAST 1/4 OF SECTION 1, TOWNSHIP 19 SOUTH, RANGE 18 EAST, TALLAHASSEE MERIDIAN; THENCE N.89°43'25"W. ALONG THE NORTH BOUNDARY OF THE SOUTHEAST 1/4 OF SAID SECTION 1, A DISTANCE OF 14.11 FEET TO THE POINT OF BEGINNING SAID POINT BEING THE NORTHEAST CORNER OF THOSE LANDS DESCRIBED IN OFFICIAL RECORD BOOK 759, PAGE 888, PUBLIC RECORDS OF CITRUS COUNTY, FLORIDA; THENCE S.00°16'35"E, A DISTANCE OF 2,630.05 FEET; THENCE N.89°43'25"W. PARALLEL WITH THE NORTH BOUNDARY OF THE SOUTHEAST 1/4 OF SAID SECTION 1, A DISTANCE OF 1,325.00 FEET; THENCE N.00°16'35"E, A DISTANCE OF 2,573.56 FEET TO A POINT ON THE SOUTH RIGHT-OF-WAY LINE OF STATE ROAD No. 44, SAID POINT BEING 150.00 FEET FROM, WHEN MEASURED AT RIGHT ANGLES TO THE CENTERLINE OF SAID STATE ROAD No. 44; THENCE N.75°41'50"E. ALONG SAID SOUTH RIGHT-OF-WAY LINE, A DISTANCE OF 297.01 FEET; THENCE DEPARTING SAID SOUTH RIGHT-OF-WAY LINE S.00°08'23"E, A DISTANCE OF 18.27 FEET TO A POINT ON THE NORTH BOUNDARY OF THE SOUTHEAST 1/4 OF SAID SECTION 1; THENCE S.89°43'25"E. ALONG THE NORTH BOUNDARY OF THE SOUTHEAST 1/4 OF SAID SECTION 1, A DISTANCE OF 1,037.42 FEET TO THE POINT OF BEGINNING. CONTAINING 79.87 ACRES, MORE OR LESS.

LESS AND EXCEPT

A PORTION OF SECTION 1, TOWNSHIP 19 SOUTH, RANGE 18 EAST, CITRUS COUNTY, FLORIDA, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCE AT THE SW CORNER OF LOT 9, BLOCK A, NEW MAYFIELD ACRES AS RECORDED IN PLAT BOOK 2, PAGE 42, PUBLIC RECORDS OF CITRUS COUNTY, FLORIDA; THENCE S.89°43'25"E. ALONG THE SOUTH LINE OF SAID LOT 9, BLOCK A AND A EASTERLY PROJECTION THEREOF, A DISTANCE OF 640.22 FEET; THENCE S.00°16'35"W, A DISTANCE OF 76.49 FEET TO A POINT THAT IS 150 FEET SOUTHEASTERLY FROM, WHEN MEASURED AT A RIGHT ANGLE TO THE CENTERLINE OF STATE ROAD No. 44; THENCE CONTINUE S.00°16'35"W, A DISTANCE OF 2,151.70 FEET; THENCE S.89°43'48"W, A DISTANCE OF 808.77 FEET TO THE POINT OF BEGINNING; THENCE CONTINUE S.89°43'48"W, A DISTANCE OF 511.23 FEET; THENCE N.00°46'14"E, A DISTANCE OF 511.23 FEET; THENCE N.89°43'46"E, A DISTANCE OF 511.23 FEET; THENCE S.00°46'14"E, A DISTANCE OF 511.23 FEET TO THE POINT OF BEGINNING. SAID EXCEPTION CONTAINING 6 ACRES, MORE OR LESS.

SUBLEASE DESCRIPTION

A PORTION OF SECTIONS 1 AND 12, TOWNSHIP 19 SOUTH, RANGE 18 EAST AND SECTION 6, TOWNSHIP 19 SOUTH, RANGE 19 EAST, CITRUS COUNTY, FLORIDA, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGIN AT THE NORTHEAST CORNER OF THE SOUTHEAST QUARTER OF SECTION 1, TOWNSHIP 19 SOUTH, RANGE 18 EAST, CITRUS COUNTY, FLORIDA; THENCE SOUTH 89°43'25" EAST ALONG AN EASTERLY PROJECTION OF THE NORTH BOUNDARY OF THE SOUTHEAST QUARTER OF SAID SECTION 1, A DISTANCE OF 285.89 FEET; THENCE SOUTH 00°16'35" WEST, A DISTANCE OF 2,930.05 FEET; THENCE NORTH 89°43'25" WEST PARALLEL WITH THE NORTH BOUNDARY OF THE SOUTHEAST QUARTER OF SAID SECTION 1, A DISTANCE OF 1,925.00 FEET; THENCE NORTH 00°16'35" EAST, A DISTANCE OF 421.83 FEET; THENCE NORTH 89°43'25" WEST PARALLEL WITH THE NORTH BOUNDARY OF THE SOUTHEAST QUARTER OF SAID SECTION 1, A DISTANCE OF 1,320.00 FEET; THENCE NORTH 00°16'35" EAST, A DISTANCE OF 2,030.38 FEET TO A POINT OF INTERSECTION WITH THE SOUTHERLY RIGHT-OF-WAY LINE OF STATE ROAD NUMBER 44, SAID POINT BEING 150.00 FEET FROM, WHEN MEASURED AT RIGHT ANGLES TO THE CENTERLINE OF SAID STATE ROAD NUMBER 44; THENCE NORTH 75°41'50" EAST ALONG SAID SOUTHERLY RIGHT-OF-WAY LINE, A DISTANCE OF 309.98 FEET; THENCE DEPARTING SAID SOUTHERLY RIGHT-OF-WAY LINE SOUTH 00°16'35" WEST, A DISTANCE OF 1,808.41 FEET; THENCE SOUTH 89°43'25" EAST PARALLEL WITH THE NORTH BOUNDARY OF THE SOUTHEAST QUARTER OF SAID SECTION 1, A DISTANCE OF 1,325.00 FEET; THENCE NORTH 00°16'35" EAST, A DISTANCE OF 2,630.05 FEET TO A POINT OF INTERSECTION WITH THE NORTH BOUNDARY OF THE SOUTHEAST QUARTER OF SAID SECTION 1; THENCE SOUTH 89°43'25" EAST ALONG THE NORTH BOUNDARY OF THE SOUTHEAST QUARTER OF SAID SECTION 1, A DISTANCE OF 14.11 FEET TO THE POINT OF BEGINNING. SAID PARCEL CONTAINING 55.55 ACRES, MORE OR LESS.

AERIAL TARGET NUMBER	X COORDINATE	Y COORDINATE	ELEVATION
A-1	514415.7043	1643723.8932	110.16'
A-2	515930.7731	1644154.1668	116.16'
A-3	517038.1853	1643947.0030	130.79'
A-4	517038.7010	1642758.8531	126.06'
A-5	517039.9417	1641584.9931	119.62'
A-6	515715.2180	1641523.9862	109.08'
A-7	514435.8577	1642134.6139	115.28'
A-8	514425.2393	1642971.9717	109.56'

GROUNDWATER MONITOR WELL No.	X COORDINATE	Y COORDINATE	LONGITUDE	LATITUDE	ELEVATION TOP OF WELL CASING
A ABANDONED 3-22-94					
B ACTIVE	515703.188	1641952.201	82°26'19.59919" W.	28°50'59.45064" N.	113.46'
C ABANDONED 04-27-07					
D ABANDONED 04-27-07					
R-1 ABANDONED 9-26-94					118.25'
2 ACTIVE	517016.947	1644134.0121	82°26'04.91534" W.	28°51'21.09969" N.	136.19'
3 ACTIVE	517026.689	1641528.493	82°26'04.69852" W.	28°50'55.30387" N.	120.47'
AA ACTIVE	514330.1915	1642844.6946	82°26'35.08066" W.	28°51'09.22643" N.	106.11'
5 ACTIVE	515708.7199	1643027.5870	82°26'19.60416" W.	28°51'10.09772" N.	121.14'
6 ACTIVE	515710.6712	1642821.8127	82°26'19.55309" W.	28°51'09.05065" N.	116.48'
4 ABANDONED					
4-R ABANDONED					
R-1 ACTIVE	515734.4675	1644075.0314	82°26'19.33566" W.	28°51'20.46904" N.	118.08'
1 ABANDONED 2-09-94					
E ACTIVE	514187.411	1642878.872	82°26'36.68776" W.	28°51'09.55952" N.	109.51'
7 ACTIVE	517032.495	1642518.150	82°26'04.67396" W.	28°51'05.10226" N.	128.86'
8 ABANDONED 10-22-97					
9 ACTIVE	514411.959	1643276.437	82°26'34.17505" W.	28°51'12.51388" N.	113.46'
8-R ACTIVE	514408.379	1642551.088	82°26'34.18499" W.	28°51'05.33238" N.	118.08'
10 ACTIVE	514808.4751	1643659.0352	82°26'29.73194" W.	28°51'09.23643" N.	114.20'
11 ACTIVE	514299.5523	1643424.8999	82°26'35.44538" W.	28°51'13.97960" N.	105.21'
12 ACTIVE	514306.5574	1642972.8677	82°26'35.34763" W.	28°51'09.50448" N.	104.01'
13 ACTIVE	514299.7062	1642543.8233	82°26'35.40866" W.	28°51'05.35644" N.	112.81'
14 ACTIVE	514302.3733	1642085.7341	82°26'35.35744" W.	28°51'00.72119" N.	108.12'
15 ACTIVE	514845.7153	1641844.4387	82°26'29.23727" W.	28°50'58.55224" N.	124.11'
16 ACTIVE	515765.2792	1642292.6040	82°26'18.91510" W.	28°51'02.82310" N.	120.31'
17 ACTIVE	515619.9611	1641846.2474	82°26'20.53070" W.	28°50'58.59859" N.	111.55'
18 ACTIVE	514730.9420	1643746.0676	82°26'30.60751" W.	28°51'30.60751" N.	116.41'
19 ACTIVE	514816.5731	1643660.2048	82°26'29.64317" W.	28°51'06.32832" N.	114.16'
PIEZOMETER 1	514454.2759	1643605.5883	82°26'33.70877" W.	28°51'14.76419" N.	111.58'
PIEZOMETER 2	515027.35199	1643833.4583	82°26'33.70877" W.	28°51'18.05116" N.	117.32'
20 ACTIVE	516104.004	1642999.189	82°26'15.135" W.	28°51'09.831" N.	119.74'
21 ACTIVE	515259.800	1643743.909	82°26'24.660" W.	28°51'17.173" N.	115.63'

LANDFILL GAS MONITORING PROBE LOCATIONS					
GAS MONITORING PROBE No.	X COORDINATE	Y COORDINATE	LONGITUDE	LATITUDE	ELEVATION TOP OF WELL CASING
1	515759.6430	1644024.1637	82°26'19.05041" W.	28°51'19.96634" N.	114.31'
2	515311.3421	1643885.8194	82°26'24.09040" W.	28°51'19.57128" N.	121.10'
3	514845.4355	1643665.4854	82°26'29.34620" W.	28°51'18.34191" N.	115.08'
4	514330.4791	1643702.6107	82°26'35.10924" W.	28°51'16.73024" N.	104.54'
5	514152.2632	1643484.3916	82°26'37.10426" W.	28°51'14.56316" N.	105.17'
6	514069.5702	1642886.4767	82°26'38.00907" W.	28°51'08.64040" N.	112.12'
7	514119.8141	1642444.1964	82°26'37.42546" W.	28°51'04.26342" N.	114.60'
8	514095.1760	1641978.6777	82°26'37.68296" W.	28°50'59.65361" N.	106.71'
9	514426.7014	1641676.8201	82°26'33.94218" W.	28°50'56.67730" N.	114.28'
10	514912.7361	1641622.8166	82°26'28.47643" W.	28°50'56.65656" N.	125.70'
11	515397.5489	1641667.9222	82°26'23.02437" W.	28°50'56.62497" N.	114.82'
12	515586.1393	1641260.0907	82°26'20.88666" W.	28°50'52.59406" N.	117.04'
13	516095.9861	1641269.1991	82°26'15.15374" W.	28°50'52.70287" N.	107.41'
14	516811.7615	1641253.6098	82°26'09.35312" W.	28°50'52.56731" N.	127.48'
15	517067.5386	1641259.1318	82°26'04.22809" W.	28°50'52.63852" N.	124.11'
16	517305.4731	1641722.4351	82°26'01.57149" W.	28°50'57.23411" N.	120.84'
17	517310.3329	1642208.6639	82°26'01.53673" W.	28°51'02.02843" N.	117.59'
18	517305.2505	1642823.1043	82°26'01.61100" W.	28°51'06.15126" N.	118.01'
GS-J-3-E	515692.9475	1643169.3309	82°26'19.76494" W.	28°51'11.50056" N.	125.74'
GS-N-6-E	515693.4141	1643368.8358	82°26'19.76802" W.	28°51'13.48569" N.	127.45'
GS-T-6	515693.4326	1643668.7379	82°26'19.78024" W.	28°51'16.4450" N.	126.97'
GS-2-E	517032.8076	1642187.6990	82°26'04.65684" W.	28°51'01.83062" N.	128.86'
GS-4-E	517188.9927	1642192.9295	82°26'02.90069" W.	28°51'01.88807" N.	
GS-1-E	517033.1595	1642260.5152	82°26'04.65688" W.	28°51'02.55156" N.	128.26'
GS-1-W	514292.2892	1643199.9376	82°26'35.91750" W.	28°51'11.75200" N.	
GP-19	517295.633	1643146.919	82°26'01.741" W.	28°51'11.337" N.	124.88'

POINT NUMBER	X COORDINATE	Y COORDINATE
14	514395.1807	1643753.9871
26	515714.1808	1644097.5662
75	516001.5039	1644172.6504
32	516001.5501	1644154.2004
23	517039.2700	1644154.6930
2231	517053.3100	1644154.6790
2233	517339.2700	1644154.8351
17	517040.1105	1641524.5131
2222	517340.2063	1641224.6324
2221	515415.3389	1641223.8669
15	515715.2180	1641523.9862
13	515715.1632	1641945.7506
2220	515415.1689	1641645.6795
2219	514095.1490	1641645.3671
2218	514095.1795	1643675.8414
11	514395.1535	1641945.4381

JOB No. 11-001

PROJ. No. 11-461

DRAWN BY: FLH

DWG. No. 00-149WellsOnly

MAP DATE: 02/10/2011

SCALE: 1"= 200'

SHEET No. 1 OF 1

FIELD DATE: 01/27/2011

FC2500 FILE: MW_01272011

SEC. 01, TWP. 19 S, RNG 18 E

BOUNDARY SURVEY

Citrus County

Division of Engineering Survey Section

3600 WEST SOVEREIGN PATH, SUITE 241
LEACANTO, FLORIDA. 34461
(352) 527-5498 FAX (352) 527-5476

I hereby certify that this map is a true and accurate depiction of a survey performed for Citrus County, Florida under my supervision and direction and that it meets the minimum technical requirements for boundary surveys as set forth by the Florida Board of Professional Surveyors and Mappers in Chapter 472, Florida Administrative Code, pursuant to Chapter 472, Florida Statutes.

Francis L. Hurt, PSM
Florida Registration No. 4635

02/08/2011
Date

Not valid without the original raised seal and signature of a Florida licensed Surveyor who Mapper

BOUNDARY SURVEY
JAN 10 2011
CITRUS COUNTY
FLORIDA

Attachment D
Driller Logs - Revised

FLORIDA DEPARTMENT OF
ENVIRONMENTAL PROTECTION

JUN 10 2011

SOUTHWEST DISTRICT
TAMPA



STATE OF FLORIDA WELL COMPLETION REPORT

- ☒ Southwest
☐ Northwest
☐ St. Johns River
☐ South Florida
☐ Suwannee River
☐ DEP
☐ Delegated Authority (If Applicable) _____

PLEASE, FILL OUT ALL APPLICABLE FIELDS
(*Denotes Required Fields Where Applicable)

Date Stamp

Received:

Jan 24, 2011 3:36 pm

Official Use Only

1. *Permit Number 809614 *CUP/WUP Number _____ *DID Number _____ 62-524 Delineation No. _____2. *Number of permitted wells constructed, repaired, or abandoned 2 *Number of permitted wells not constructed, repaired, or abandoned 03. *Owner's Name CITRUS COUNTY 4. *Completion Date 01/12/2011 5. Florida Unique ID _____6. 00230 W GULF TO LAKE HWY Lecanto
*Well Location - Address, Road Name or Number, City, ZIP7. *County CITRUS *Section 1 Land Grant _____ *Township 19 *Range 188. Latitude 28 51 16.97 Longitude 82 26 13.929. Data Obtained From: GPS ☒ Map Survey Datum: NAD 27 ☒ NAD 83 WGS 8410. *Type of Work: ☒ Construction ☐ Repair ☐ Modification ☐ Abandonment11. *Specify Intended Use(s) of Well(s):
☐ Domestic ☐ Landscape Irrigation ☐ Agricultural Irrigation ☐ Site Investigation
☐ Bottled Water Supply ☐ Recreation Area Irrigation ☐ Livestock ☒ Monitoring
☐ Public Water Supply (Limited Use/DOH) ☐ Nursery Irrigation ☐ Test
☐ Public Water Supply (Community or Non-Community/DEP) ☐ Commercial/Industrial ☐ Earth-Coupled Geothermal
☐ Class I Injection ☐ Golf Course Irrigation ☐ HVAC Supply
☐ Class V Injection: ☐ Recharge ☐ Commercial/Industrial Disposal ☐ Aquifer Storage and Recovery ☐ Drainage
☐ Remediation: ☐ Recovery ☐ Air Sparge ☐ Other (Describe) _____
☐ Other (Describe) _____12. *Drill Method: ☐ Auger ☐ Cable Tool ☒ Rotary ☐ Combination (Two or More Methods) ☐ Jetted ☐ Sonic
☐ Horizontal Drilling ☐ Hydraulic Point (Direct Push) ☐ Other _____13. *Measured Static Water Level 0 ft. Measured Pumping Water Level _____ ft. After _____ Hours at _____ GPM14. *Measuring Point (Describe) _____ Which is _____ ft. Above _____ Below Land Surface *Flowing: ☐ Yes ☐ No15. *Casing Material: ☐ Black Steel ☐ Galvanized ☒ PVC ☐ Stainless Steel ☐ Not Cased ☐ Other _____16. *Total Well Depth 125 ft. Cased Depth 105 ft. *Open Hole: From _____ To _____ ft. *Screen: From 105 To 125 ft. Slot Size .0117. *Abandonment: ☐ Other (Explain) _____From _____ ft. To _____ ft. No. of Bags _____ Seal Material (Check One): ☐ Neat Cement ☐ Bentonite ☐ Other _____From _____ ft. To _____ ft. No. of Bags _____ Seal Material (Check One): ☐ Neat Cement ☐ Bentonite ☐ Other _____From _____ ft. To _____ ft. No. of Bags _____ Seal Material (Check One): ☐ Neat Cement ☐ Bentonite ☐ Other _____From _____ ft. To _____ ft. No. of Bags _____ Seal Material (Check One): ☐ Neat Cement ☐ Bentonite ☐ Other _____From _____ ft. To _____ ft. No. of Bags _____ Seal Material (Check One): ☐ Neat Cement ☐ Bentonite ☐ Other _____

18. *Surface Casing Diameter and Depth:

Dia _____ in. From _____ ft. To _____ ft. No. of Bags _____ Seal Material (Check One): ☐ Neat Cement ☐ Bentonite ☐ Other _____Dia _____ in. From _____ ft. To _____ ft. No. of Bags _____ Seal Material (Check One): ☐ Neat Cement ☐ Bentonite ☐ Other _____

19. *Primary Casing Diameter and Depth:

Dia 2 in. From 0 ft. To 105 ft. No. of Bags 20 Seal Material (Check One): ☒ Neat Cement ☐ Bentonite ☐ Other _____Dia _____ in. From _____ ft. To _____ ft. No. of Bags _____ Seal Material (Check One): ☐ Neat Cement ☐ Bentonite ☐ Other _____Dia _____ in. From _____ ft. To _____ ft. No. of Bags _____ Seal Material (Check One): ☐ Neat Cement ☐ Bentonite ☐ Other _____Dia _____ in. From _____ ft. To _____ ft. No. of Bags _____ Seal Material (Check One): ☐ Neat Cement ☐ Bentonite ☐ Other _____Dia _____ in. From _____ ft. To _____ ft. No. of Bags _____ Seal Material (Check One): ☐ Neat Cement ☐ Bentonite ☐ Other _____

20. *Liner Casing Diameter and Depth:

Dia _____ in. From _____ ft. To _____ ft. No. of Bags _____ Seal Material (Check One): ☐ Neat Cement ☐ Bentonite ☐ Other _____Dia _____ in. From _____ ft. To _____ ft. No. of Bags _____ Seal Material (Check One): ☐ Neat Cement ☐ Bentonite ☐ Other _____Dia _____ in. From _____ ft. To _____ ft. No. of Bags _____ Seal Material (Check One): ☐ Neat Cement ☐ Bentonite ☐ Other _____

21. *Telescope Casing Diameter and Depth:

Dia _____ in. From _____ ft. To _____ ft. No. of Bags _____ Seal Material (Check One): ☐ Neat Cement ☐ Bentonite ☐ Other _____Dia _____ in. From _____ ft. To _____ ft. No. of Bags _____ Seal Material (Check One): ☐ Neat Cement ☐ Bentonite ☐ Other _____Dia _____ in. From _____ ft. To _____ ft. No. of Bags _____ Seal Material (Check One): ☐ Neat Cement ☐ Bentonite ☐ Other _____22. Pump Type (If Known): ☐ Centrifugal ☐ Jet ☐ Submersible ☐ Turbine

Horsepower _____ Pump Capacity (GPM) _____

Pump Depth _____ ft. Intake Depth _____ ft.

23. Chemical Analysis (When Required):
Iron _____ ppm Sulfate _____ ppm Chloride _____ ppm
Laboratory Test _____ Field Test Kit _____

24. Water Well Contractor:

*Contractor Name STEPHANIE S STALLSMITH *License Number 9342 E-mail Address stephanie@hussdrilling.com*Contractor's Signature Digitally Signed *Driller's Name (Print or Type) Kevin Refuse

I certify that the information provided in this report is accurate and true.

NORTHWEST FLORIDA WATER MANAGEMENT DISTRICT
152 WATER MANAGEMENT DR., HAVANA, FL 32333-4712
(U.S. Highway 90, 10 miles west of Tallahassee)
PHONE: (850) 539-5999
WWW.NWFWMD.STATE.FL.US

SOUTH FLORIDA WATER MANAGEMENT DISTRICT
P.O. BOX 24680
3301 GUN CLUB ROAD
WEST PALM BEACH, FL 33416-4680
PHONE: (561) 686-8800
WWW.SFWMD.GOV

SUWANNEE RIVER WATER MANAGEMENT DISTRICT
9225 CR 49
LIVE OAK, FL 32060
PHONE: (386) 362-1001 or (800) 226-1066 (Florida only)
WWW.MYSUWANNEERIVER.COM

[illegible]

Comments:

Wet @ 105'

*Detailed Site Map of Well Location



Give distances from all reference points or structures, septic systems, sanitary hazards, and contamination sources within 500 ft. of well.



STATE OF FLORIDA WELL COMPLETION REPORT

- ☒ Southwest
☐ Northwest
☐ St. Johns River
☐ South Florida
☐ Suwannee River
☐ DEP
☐ Delegated Authority (If Applicable) _____

PLEASE, FILL OUT ALL APPLICABLE FIELDS
(*Denotes Required Fields Where Applicable)

Date Stamp
Received:
Jan 24, 2011 3:38 pm

Official Use Only

1. *Permit Number <u>808514</u>		*CUPWUP Number _____		*DID Number _____		62-524 Delineation No. _____	
2. *Number of permitted wells constructed, repaired, or abandoned <u>2</u>		*Number of permitted wells not constructed, repaired, or abandoned <u>0</u>					
3. *Owner's Name <u>CITRUS COUNTY</u>				4. *Completion Date <u>01/12/2011</u>		5. Florida Unique ID _____	
6. <u>00230 W GULF TO LAKE HWY</u> <u>Locanto</u> *Well Location - Address, Road Name or Number, City, ZIP _____							
7. *County <u>CITRUS</u>		*Section <u>1</u>		Land Grant _____		*Township <u>19</u> *Range <u>18</u>	
8. Latitude <u>28 51 16.97</u>		Longitude <u>82 28 13.92</u>					
9. Date Obtained From: _____		GPS <input checked="" type="checkbox"/> Map _____		Survey _____		Datum: <u>NAD 27</u> <input checked="" type="checkbox"/> <u>NAD 83</u> _____ WGS 84 _____	
10. *Type of Work: <input checked="" type="checkbox"/> Construction _____ Repair _____ Modification _____ Abandonment _____							
11. *Specify Intended Use(s) of Well(s): Domestic _____ Landscape Irrigation _____ Agricultural Irrigation _____ Site Investigation _____ Bottled Water Supply _____ Recreation Area Irrigation _____ Livestock _____ <input checked="" type="checkbox"/> Monitoring _____ Public Water Supply (Limited Use/DOH) _____ Nursery Irrigation _____ Test _____ Public Water Supply (Community or Non-Community/DEP) _____ Commercial/Industrial _____ Earth-Coupled Geothermal _____ Class I Injection _____ Golf Course Irrigation _____ HVAC Supply _____ Class V Injection: _____ Recharge _____ Commercial/Industrial Disposal _____ Aquifer Storage and Recovery _____ Drainage _____ Remediation: _____ Recovery _____ Air Sparge _____ Other (Describe) _____ Other (Describe) _____							
12. *Drill Method: _____ Auger _____ Cable Tool _____ <input checked="" type="checkbox"/> Rotary _____ Combination (Two or More Methods) _____ Jetted _____ Sonic _____ Horizontal Drilling _____ Hydraulic Point (Direct Push) _____ Other _____							
13. *Measured Static Water Level _____ ft. Measured Pumping Water Level _____ ft. After _____ Hours at _____ GPM							
14. *Measuring Point (Describe) _____ Which is _____ ft. Above _____ Below Land Surface *Flowing: _____ Yes _____ No							
15. *Casing Material: _____ Black Steel _____ Galvanized <input checked="" type="checkbox"/> PVC _____ Stainless Steel _____ Not Cased _____ Other _____							
16. *Total Well Depth <u>125</u> ft. Cased Depth <u>105</u> ft. *Open Hole: From _____ To _____ ft. *Screen: From <u>105</u> To <u>125</u> ft. Slot Size <u>.01</u>							
17. *Abandonment: _____ Other (Explain) _____ From _____ ft. To _____ ft. No. of Bags _____ Seal Material (Check One): _____ Neat Cement _____ Bentonite _____ Other _____ From _____ ft. To _____ ft. No. of Bags _____ Seal Material (Check One): _____ Neat Cement _____ Bentonite _____ Other _____ From _____ ft. To _____ ft. No. of Bags _____ Seal Material (Check One): _____ Neat Cement _____ Bentonite _____ Other _____ From _____ ft. To _____ ft. No. of Bags _____ Seal Material (Check One): _____ Neat Cement _____ Bentonite _____ Other _____ From _____ ft. To _____ ft. No. of Bags _____ Seal Material (Check One): _____ Neat Cement _____ Bentonite _____ Other _____							
18. *Surface Casing Diameter and Depth: Dia _____ in. From _____ ft. To _____ ft. No. of Bags _____ Seal Material (Check One): _____ Neat Cement _____ Bentonite _____ Other _____ Dia _____ in. From _____ ft. To _____ ft. No. of Bags _____ Seal Material (Check One): _____ Neat Cement _____ Bentonite _____ Other _____							
19. *Primary Casing Diameter and Depth: Dia <u>2</u> in. From <u>0</u> ft. To <u>105</u> ft. No. of Bags <u>20</u> Seal Material (Check One): <input checked="" type="checkbox"/> Neat Cement _____ Bentonite _____ Other _____ Dia _____ in. From _____ ft. To _____ ft. No. of Bags _____ Seal Material (Check One): _____ Neat Cement _____ Bentonite _____ Other _____ Dia _____ in. From _____ ft. To _____ ft. No. of Bags _____ Seal Material (Check One): _____ Neat Cement _____ Bentonite _____ Other _____ Dia _____ in. From _____ ft. To _____ ft. No. of Bags _____ Seal Material (Check One): _____ Neat Cement _____ Bentonite _____ Other _____ Dia _____ in. From _____ ft. To _____ ft. No. of Bags _____ Seal Material (Check One): _____ Neat Cement _____ Bentonite _____ Other _____							
20. *Liner Casing Diameter and Depth: Dia _____ in. From _____ ft. To _____ ft. No. of Bags _____ Seal Material (Check One): _____ Neat Cement _____ Bentonite _____ Other _____ Dia _____ in. From _____ ft. To _____ ft. No. of Bags _____ Seal Material (Check One): _____ Neat Cement _____ Bentonite _____ Other _____ Dia _____ in. From _____ ft. To _____ ft. No. of Bags _____ Seal Material (Check One): _____ Neat Cement _____ Bentonite _____ Other _____							
21. *Telescope Casing Diameter and Depth: Dia _____ in. From _____ ft. To _____ ft. No. of Bags _____ Seal Material (Check One): _____ Neat Cement _____ Bentonite _____ Other _____ Dia _____ in. From _____ ft. To _____ ft. No. of Bags _____ Seal Material (Check One): _____ Neat Cement _____ Bentonite _____ Other _____ Dia _____ in. From _____ ft. To _____ ft. No. of Bags _____ Seal Material (Check One): _____ Neat Cement _____ Bentonite _____ Other _____							
22. Pump Type (If Known): Centrifugal _____ Jet _____ Submersible _____ Turbine _____ Horsepower _____ Pump Capacity (GPM) _____ Pump Depth _____ ft. Intake Depth _____ ft.				23. Chemical Analysis (When Required): Iron _____ ppm Sulfate _____ ppm Chloride _____ ppm Laboratory Test _____ Field Test Kit _____			
24. Water Well Contractor: *Contractor Name <u>STEPHANIE S STALLSMITH</u> *License Number <u>9342</u> E-mail Address <u>stephanie@hussdrilling.com</u> *Contractor's Signature <u>Digitally Signed</u> *Driller's Name (Print or Type) <u>Kevin Roffuso</u> (I certify that the information provided in this report is accurate and true.)							

NORTHWEST FLORIDA WATER MANAGEMENT DISTRICT
152 WATER MANAGEMENT DR., HAVANA, FL 32333-4712
(U.S. Highway 90, 10 miles west of Tallahassee)
PHONE: (850) 539-5999
WWW.NWFWMD.STATE.FL.US

SOUTH FLORIDA WATER MANAGEMENT DISTRICT
P.O. BOX 24580
3301 GUN CLUB ROAD
WEST PALM BEACH, FL 33416-4680
PHONE: (561) 686-8800
WWW.SFWMD.GOV

SUWANNEE RIVER WATER MANAGEMENT DISTRICT
9225 CR 49
LIVE OAK, FL 32060
PHONE: (386) 362-1001 or (800) 226-1066 (Florida only)
WWW.MYSUWANNEERIVER.COM

[illegible]

Comments:

Wet @ 115'

*Detailed Site Map of Well Location



Give distances from all reference points or structures, septic systems, sanitary hazards, and contamination sources within 500 ft. of well.

FLORIDA DEPARTMENT OF
ENVIRONMENTAL PROTECTION

JUN 10 2011

SOUTHWEST DISTRICT
TAMPA

Attachment E
Potentiometric Map

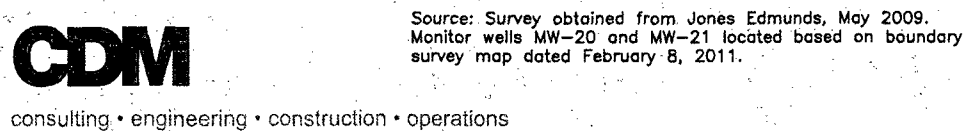


FIGURE NO. 3-1
GROUNDWATER CONTOUR MAP FLORIDAN AQUIFER
CITRUS COUNTY CENTRAL LANDFILL
WATER LEVEL DATA COLLECTED - JANUARY 18, 2011