

Florida Onsite Sewage Nitrogen Reduction Strategies Study

TASK C.23 PROGRESS REPORT

C-HS3 Instrumentation Report

Prepared for:

Florida Department of Health Division of Environmental Health Bureau of Onsite Sewage Programs 4042 Bald Cypress Way Bin #A-08 Tallahassee, FL 32399-1713

FDOH Contract CORCL

June 2012

Prepared by:



In Association With:



and





C-HS3 Instrumentation Report

1.0 Background

Task C of the Florida Onsite Sewage Nitrogen Reduction Strategies Study includes monitoring at field sites in Florida to evaluate nitrogen reduction in soil and groundwater, to assess groundwater impacts from various onsite wastewater systems, and to provide data for parameter estimation, verification, and validation of models developed in Task D. The Task C.5 QAPP documents the objectives, monitoring framework, sample frequency and duration, and analytical methods to be used at the field sites. This report documents the progress for instrumentation of the third Task C home site (C-HS3) located in Polk County, Florida.

2.0 Site Description

The C-HS3 field site is located in Polk County, FL adjacent to Big Gum lake in a rural area surrounded by commercial orange groves. The onsite sewage treatment and disposal system (OSTDS) for the residence consists of a 750 gallon concrete septic tank located adjacent to the soil treatment unit, which is a gravity fed standard bed drainfield, 10 ft by 20 ft.

3.0 Installation of Monitoring Points

An initial site investigation was conducted February 27, 2012 to determine groundwater flow direction and to identify the OSTDS plume. Five standpipe piezometers were installed in the vicinity of the drainfield and the property corners with a hand auger to determine the groundwater flow direction. Soil descriptions were noted and samples collected during installation. These standpipe piezometers consist of ¾-inch diameter PVC with 5-foot screen (0.01-inch slots). Once a piezometer was in place, 20/30 grade silica sand was poured around the piezometer to a height above the piezometer screen. Approximately 6 to 12 inches of bentonite was placed above the sand pack. Native soil was used to fill the remainder of the borehole around the piezometer. A 7-inch diameter irrigation cover was installed over each standpipe piezometer to protect the monitoring point and decrease disturbance to the homeowner.

Groundwater levels were measured using a flat tape water level meter graduated in feet (measurement accuracy is 0.01 feet). Elevations are based on National Geodetic Vertical Datum of 1929. Table 1 summarizes the piezometer survey information and initial groundwater elevations recorded enabling a determination of groundwater flow direction. As depicted in Figure 1, the general groundwater flow direction was to the north/northwest.

Table 1
Site C-HS3 Piezometers Installed February 27, 2012

Identification	Type of Monitoring Point	Top Elevation (ft)	Groundwater Elevation (ft) Feb 28, 2012
PZ01-BKG	3/4" Standpipe Piezometer, 5' screen	108.53	94.60
PZ02-BKG	3/4" Standpipe Piezometer, 5' screen	98.08	94.21
PZ03-BKG	3/4" Standpipe Piezometer, 5' screen	102.84	94.37
PZ04-BKG	3/4" Standpipe Piezometer, 5' screen	104.35	94.43
PZ05-BKG	3/4" Standpipe Piezometer, 5' screen	98.68	94.19

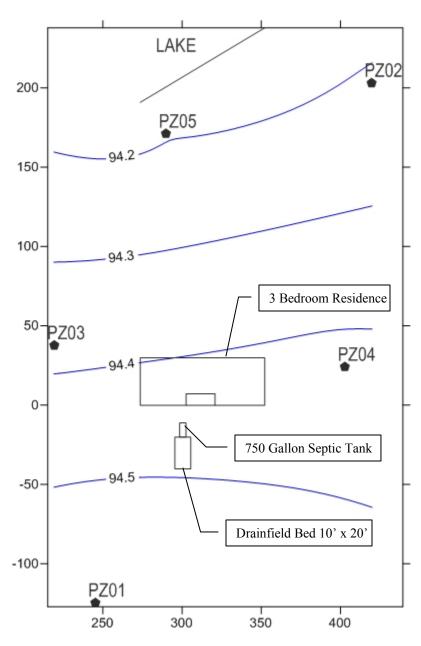


Figure 1 Surficial Groundwater Contours February 28, 2012

During the February site visit, the OSTDS plume was also located using a push-pull sampler to obtain groundwater samples which were screened for conductivity at fifteen locations around the drainfield bed as shown in Figure 2. Initially, an attempt was made to take samples from more than one depth; however, the groundwater was too deep for the equipment available. Therefore, samples were only taken from the top portion of the groundwater, approximately 12-feet below grade. Appendix A summarizes the field measurements taken at the push-pull sampler locations and the standpipe piezometers including: temperature, pH, specific conductance, and dissolved oxygen concentrations as well as approximate nitrate and nitrite test strip measurements. The highest conductivity and nitrate test strip readings were near the northern edge of the drainfield at the PP7, PP1, PP4, and PP5 locations approximately 12-feet below grade.

On March 13, 2012, Averett Septic Tank Company visited the site and confirmed the size and structural soundness of the concrete septic tank. In addition, the drainfield bed location and size was verified. During the March 13th site visit, the groundwater levels were measured in the previously installed piezometers. Groundwater elevations were slightly lower, but the direction of the groundwater flow was similar (Figure 3) to that on February 28, 2012.

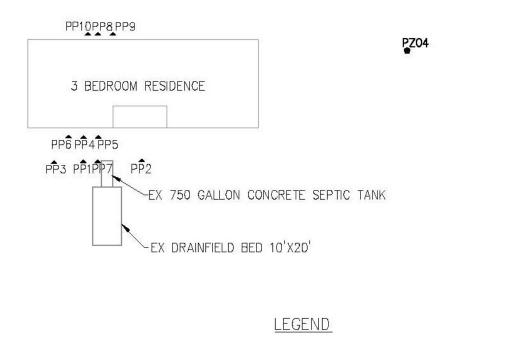


Figure 2 C-HS3 Initial Groundwater Screening

PUSH-PULL SAMPLING LOCATION

INSTALLED STANDPIPE PIEZOMETERS

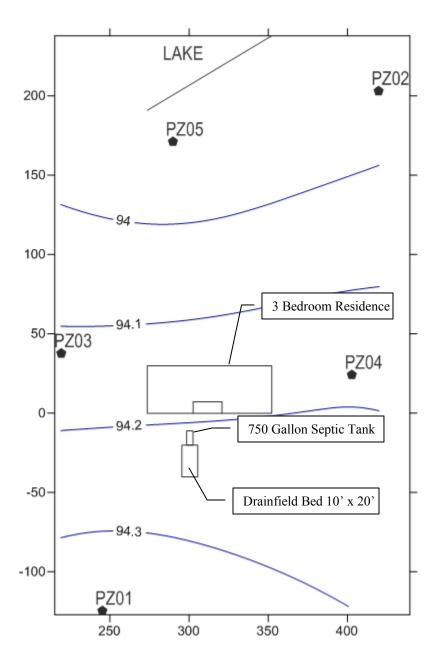


Figure 3 Surficial Groundwater Contours March 13, 2012

Based on the groundwater flow direction and initial groundwater sampling data, a sampling grid for groundwater screening was developed downgradient of the soil treatment unit. On June 25, 2012, a 6-foot by 5-foot grid spacing was staked. Transect lines A through U run east-west, roughly perpendicular to the groundwater flow direction and increase (higher letter identification) moving northward from the drainfield. Transect lines 0 through 7 run north-south, roughly parallel to the groundwater flow direction and increase moving from the east to west. Based on initial screening data, 22 monitoring locations were chosen within the grid for standpipe piezometer installation. Each monitoring location was assigned a unique identification indicating grid location (self explanatory), and depth below ground surface (bottom of the well screen in feet). For example A03-15 is a standpipe piezometer sampler located on the grid at A03 at 15 feet below ground surface. Figure 4 shows the monitoring plan and grid.

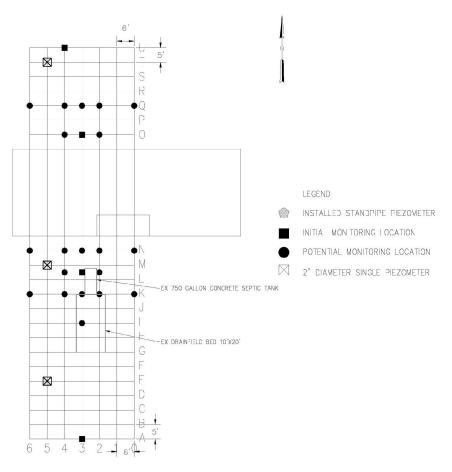


Figure 4
Monitoring Plan and Grid

Mechling Engineering & Consulting, Inc. completed a soil and water assessment (Appendix B) of the site during the week of June 25 through 29, 2012. Drilling services were provided by Environmental Drilling Service, Inc., Orlando, FL. Groundwater screening using a direct push drilling rig was conducted at three grid locations: A03, ML03, and O03. A ¾-inch diameter stainless steel covered by a screen sheath was placed via the direct push method at the screened intervals provided in Table 2.

Table 2
Groundwater Screening Intervals: Depth Below Land Surface (feet)

	, ,
Location ML03	Location O03
8-10	8-10
10-12	10-12
12-14	12-14
14-16	14-16
16-18	16-18
18-20	18-20
20-22	20-22
30-32	22-24
40-42	32-34
50-52	42-44
60-62	52-54
	62-64
	72-74
	8-10 10-12 12-14 14-16 16-18 18-20 20-22 30-32 40-42 50-52

When the screen was located at the proper depth, the sheath was retracted to allow groundwater to flow into the screen. Groundwater samples were then collected with a peristaltic pump and dedicated polyethylene tubing as shown in Figure 5. Sample collection was performed in accordance with FDEP Standard Operating Procedures DEP-SOP-001/01 FS2200. Recorded groundwater field parameters, including pH, temperature, conductivity, dissolved oxygen, turbidity, nitrate and nitrite test strips, are provided in Appendix C, Table C.1. The groundwater sampling logs are also provided in Appendix B, Attachment 1. In addition, water samples at each depth were collected for laboratory analysis for chloride.

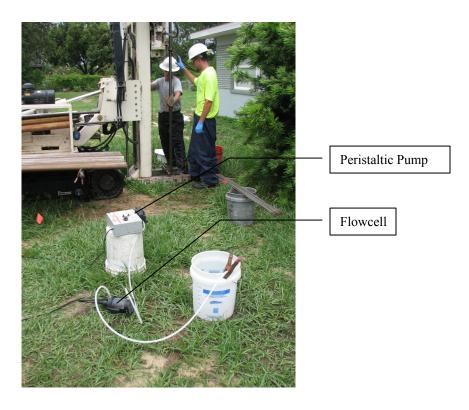
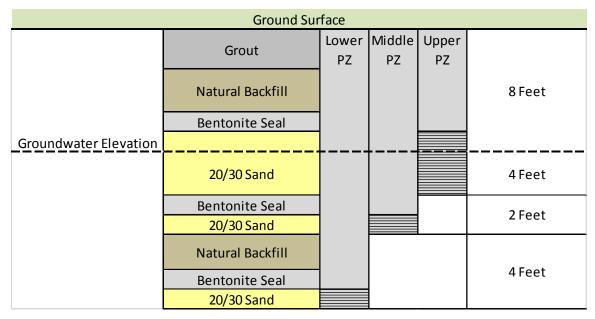


Figure 5
Photo of Groundwater Sample Collection

A GeoprobeTM rig was also used to install a total of 63 piezometers. Two of these piezometers (at grid locations M05 and T05) were 2-inch diameter PVC piezometers with 5-foot screens (0.01-inch slots) installed primarily for slug testing to determine hydraulic conductivity. In addition, two piezometers (at grid locations A03 and U06) were installed to a depth of 34-feet to investigate vertical gradient.

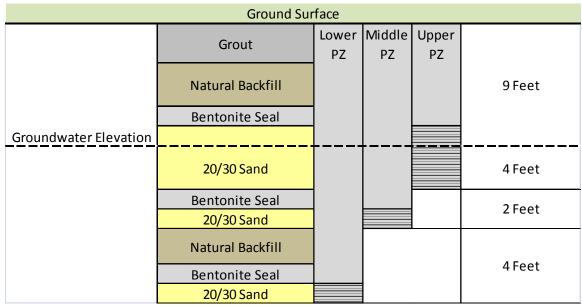
The remaining 59 piezometers were installed at 20 locations in nested clusters at various depths relative to the groundwater elevation as depicted in Figures 6, 7 and 8. The GeoprobeTM rig was used to auger (4.25-inch inner diameter) to 10-feet below the top of the groundwater table. The piezometer nest was placed inside the hollow auger and completed with 20/30 grade silica sand around the screens, a 1-foot bentonite seal between the screens (using ¼-inch bentonite pellets), and natural backfill with a 1-foot grout seal at the top at grade. To capture the expected groundwater fluctuations, a 5-foot screen was used in the shallow piezometer in each set of nested piezometers. The two deeper piezometers at each location had a 1-foot screen. The shallowest of the three nested piezometers at each location was positioned so that the top of the screen was within 1-foot of the groundwater table. A summary of the nested piezometer installations is as follows:

- Upper piezometer (5-foot screen) bottom of screen 4-feet below top of groundwater table
- 2. Middle piezometer (1-foot screen) bottom of the screen 2-foot below bottom of "upper piezometer" screen, and
- 3. Lower piezometer (1-foot screen) bottom of screen 4-feet below bottom of "middle piezometer" screen.



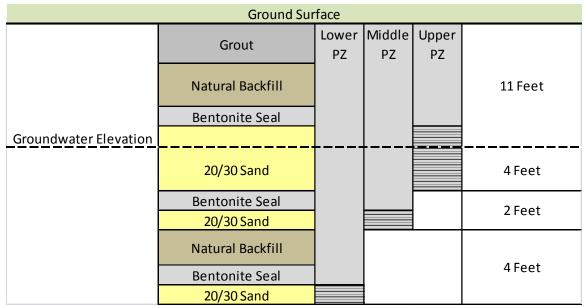
Configuration for grid locations: U04, U06

Figure 6
Nested Standpipe Piezometers Configuration
Groundwater Table Elevation 8-feet BGS



Configuration for grid locations: Q06, Q04, Q07, Q01

Figure 7
Nested Standpipe Piezometers Configuration
Groundwater Table Elevation 9-feet BGS



Configuration for grid locations: A03, I03, K03, ML03, O04, N06, N04, N02, N00, O03, L02, L04, L07, O07

Figure 8
Nested Standpipe Piezometers Configuration
Groundwater Table Elevation 11-feet BGS

Nested piezometers were placed at grid locations A-03; I-03; K-03; L--02, -04, -07; ML03; N--00, -02, -04, -06; O--03, -04, -07; Q--01, -04, -06, -07; and U--04, -06. A schematic of the C-HS3 monitoring network is shown in Figure 9. Table 3 provides a complete list of all the standpipe piezometers installed June 25 through 29, 2012.

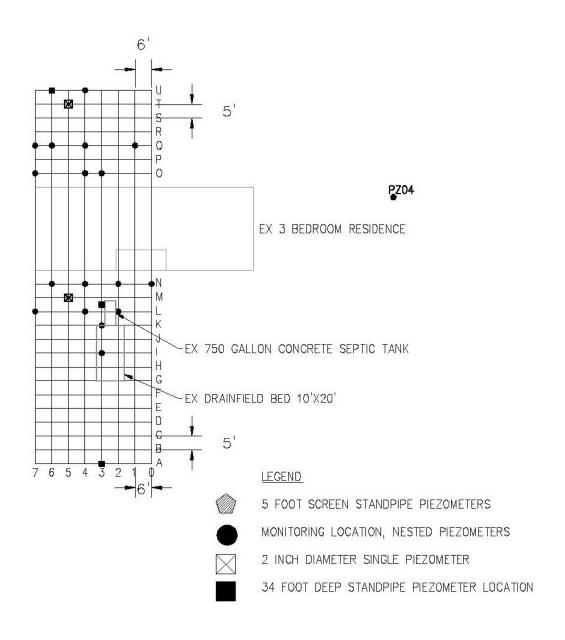


Figure 9 C-HS3 Monitoring Network

Table 3
Site C-HS3 Piezometers Installed June 25 through 29, 2012

	Site	C-HS3 Piezometers Installed June 25 through	29, 2012	
			Тор	Bottom
			Elevation ¹	Elevation ¹
	Identification	Type of Monitoring Point	(feet)	(feet)
1	PZ-03A-15	1" Standpipe Piezometer, 5' screen	106.84	91.84
2	PZ-03A-17	3/4" Standpipe Piezometer, 1' screen	106.75	89.75
3	PZ-03A-21	3/4" Standpipe Piezometer, 1' screen	106.84	85.84
4	PZ-03A-34	2" Standpipe Piezometer, 5' screen	107.12	73.12
5	PZ-03I-15	1" Standpipe Piezometer, 5' screen	106.46	91.46
6	PZ-03I-17	3/4" Standpipe Piezometer, 1' screen	106.35	89.35
7	PZ-03I-21	3/4" Standpipe Piezometer, 1' screen	106.44	85.44
8	PZ-03K-15	1" Standpipe Piezometer, 5' screen	106.12	91.12
9	PZ-03K-17	3/4" Standpipe Piezometer, 1' screen	106.11	89.11
10	PZ-03K-21	3/4" Standpipe Piezometer, 1' screen	106.13	85.13
11	PZ-02L-15	1" Standpipe Piezometer, 5' screen	106.02	91.02
12	PZ-02L-17	3/4" Standpipe Piezometer, 1' screen	105.90	88.90
13	PZ-02L-21	3/4" Standpipe Piezometer, 1' screen	105.95	84.95
14	PZ-04L-15	1" Standpipe Piezometer, 5' screen	105.86	90.86
15	PZ-04L-17	3/4" Standpipe Piezometer, 1' screen	105.84	88.84
16	PZ-04L-21	3/4" Standpipe Piezometer, 1' screen	105.78	84.78
17	PZ-07L-15	1" Standpipe Piezometer, 5' screen	105.97	90.97
18	PZ-07L-17	3/4" Standpipe Piezometer, 1' screen	105.93	88.93
19	PZ-07L-21	3/4" Standpipe Piezometer, 1' screen	105.98	84.98
20	PZ-03ML-15	1" Standpipe Piezometer, 5' screen	106.00	91.00
21	PZ-03ML-17	3/4" Standpipe Piezometer, 1' screen	106.03	89.03
22	PZ-03ML-21	3/4" Standpipe Piezometer, 1' screen	105.93	84.93
23	PZ-05M-25	2" Standpipe Piezometer, 5' screen	106.01	81.01
24	PZ-00N-15	1" Standpipe Piezometer, 5' screen	105.78	90.78
25	PZ-00N-17	3/4" Standpipe Piezometer, 1' screen	105.74	88.74
26	PZ-00N-21	3/4" Standpipe Piezometer, 1' screen	105.72	84.72
27	PZ-02N-15	1" Standpipe Piezometer, 5' screen	105.90	90.90

Table 3
Site C-HS3 Piezometers Installed June 25 through 29, 2012

	Site	C-HS3 Piezometers Installed June 25 through	1 29, 2012	
			Тор	Bottom
			Elevation ¹	Elevation ¹
	Identification	Type of Monitoring Point	(feet)	(feet)
28	PZ-02N-17	3/4" Standpipe Piezometer, 1' screen	105.87	88.87
29	PZ-02N-21	3/4" Standpipe Piezometer, 1' screen	105.86	84.86
30	PZ-04N-15	1" Standpipe Piezometer, 5' screen	105.60	90.60
31	PZ-04N-17	3/4" Standpipe Piezometer, 1' screen	105.61	88.61
32	PZ-04N-21	3/4" Standpipe Piezometer, 1' screen	105.64	84.64
33	PZ-06N-15	1" Standpipe Piezometer, 5' screen	105.73	90.73
34	PZ-06N-17	3/4" Standpipe Piezometer, 1' screen	105.70	88.70
35	PZ-06N-21	3/4" Standpipe Piezometer, 1' screen	105.80	84.80
36	PZ-03O-15	1" Standpipe Piezometer, 5' screen	104.59	89.59
37	PZ-03O-17	3/4" Standpipe Piezometer, 1' screen	104.54	87.54
38	PZ-03O-21	3/4" Standpipe Piezometer, 1' screen	104.58	83.58
39	PZ-04O-15	1" Standpipe Piezometer, 5' screen	104.10	89.10
40	PZ-04O-17	3/4" Standpipe Piezometer, 1' screen	104.09	87.09
41	PZ-04O-21	3/4" Standpipe Piezometer, 1' screen	104.11	83.11
42	PZ-07O-15	1" Standpipe Piezometer, 5' screen	103.83	88.83
43	PZ-07O-17	3/4" Standpipe Piezometer, 1' screen	103.75	86.75
44	PZ-07O-21	3/4" Standpipe Piezometer, 1' screen	103.91	83.91
45	PZ-01Q-13	1" Standpipe Piezometer, 5' screen	104.19	91.19
46	PZ-01Q-15	3/4" Standpipe Piezometer, 1' screen	104.18	89.18
47	PZ-01Q-19	3/4" Standpipe Piezometer, 1' screen	104.24	85.24
48	PZ-04Q-13	1" Standpipe Piezometer, 5' screen	103.58	90.58
49	PZ-04Q-15	3/4" Standpipe Piezometer, 1' screen	103.54	88.54
50	PZ-04Q-19	3/4" Standpipe Piezometer, 1' screen	103.60	84.60
51	PZ-06Q-13	1" Standpipe Piezometer, 5' screen	103.66	90.66
52	PZ-06Q-15	3/4" Standpipe Piezometer, 1' screen	103.66	88.66
53	PZ-06Q-19	3/4" Standpipe Piezometer, 1' screen	103.71	84.71
54	PZ-07Q-13	1" Standpipe Piezometer, 5' screen	103.56	90.56
55	PZ-07Q-15	3/4" Standpipe Piezometer, 1' screen	103.64	88.64

Table 3
Site C-HS3 Piezometers Installed June 25 through 29, 2012

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			Тор	Bottom
			Elevation ¹	Elevation ¹
	Identification	Type of Monitoring Point	(feet)	(feet)
56	PZ-07Q-19	3/4" Standpipe Piezometer, 1' screen	103.62	84.62
57	PZ-05T-25	2" Standpipe Piezometer, 5' screen	102.73	77.73
58	PZ-04U-12	1" Standpipe Piezometer, 5' screen	102.61	90.61
59	PZ-04U-14	3/4" Standpipe Piezometer, 1' screen	102.64	88.64
60	PZ-04U-18	3/4" Standpipe Piezometer, 1' screen	102.61	84.61
61	PZ-06U-12	1" Standpipe Piezometer, 5' screen	102.07	90.07
62	PZ-06U-14	3/4" Standpipe Piezometer, 1' screen	101.96	87.96
63	PZ-06U-34	3/4" Standpipe Piezometer, 1' screen	101.94	67.94

¹Elevation above mean seal level based on NGVD 1929

4.0 Soil Assessment

Continuous soil samples were collected using the direct push method at grid locations ML03 and O03. Soil samples were collected in direct push hollow tubes. The soil descriptions are provided in Appendix D. The samples were sent to a soil laboratory for analysis.

Additionally, soil from the auger flights during installation of standpipe piezometers was classified as the auger was retracted from the ground. Soil encountered generally included tan, brown, gray, orange and white fine sands. The boring logs from locations 103, O04, U04, and N06 are included in Appendix B, Attachment 2.

5.0 Slug Testing

Hydraulic conductivity of the surficial aquifer was determined by conducting field "slug" testing. A slug test consists of placing a data logger into a well, allowing the water level to return to its original level, and then rapidly inserting a solid, cylindrical object of known, fixed volume (the "slug") into the well, thereby displacing water. As the slug is inserted into the well the water level rises to a maximum level. The data logger records the increase in the depth of the water level and continuously records the water level versus time as the water returns to its original depth. When the data are plotted on a logarithmic scale, the resulting curve can be used to determine hydraulic conductivity.

Slug testing was performed at two 2-inch diameter piezometers with 5 feet of slotted screen (0.01-inch slots) and riser to the ground surface installed at grid locations 05M and 05T. Total depth was 25 feet below land surface. An In-Situ Level TROLL 700 datalogger and In-Situ Rugged Reader were utilized to measure and record groundwater depth versus time. The data were analyzed and plotted with United State Geological Survey (USGS) spreadsheets, provided in Microsoft Excel format, using the Bouwer and Rice Method.

The hydraulic conductivity calculation for well 05M is 8.6 ft/day. These results are consistent with anticipated values for fine sands. The data for well 05T resulted in inconsistent model output; therefore, the results are not reported. The Bouwer and Rice Method spreadsheet and graph for the slug tests are provided in Appendix B, Attachment 3.

6.0 Preliminary Groundwater Sampling

Groundwater screening was conducted during installation June 25 through 29, 2012 and July 13, 2012. Groundwater screening field parameters are outlined in Appendix E including temperature, pH and specific conductance measurements for some of the monitoring locations. Based on the preliminary groundwater specific conductance measurements, the general plume appears to extend to the northwest as expected. Sampling and analysis using standard analytical methods is required to confirm the plume extent and is scheduled for August 2012.



Appendix A: C-HS3 February Sampling Results

Table A.1

Site C-HS3 Initial Site Monitoring

		Site	<u>∕-µ23 iui</u>	liai Sili	NIOIIIC	ring			
ID	Description	Depth Below Ground Surface (ft)	Temp (°C)	рН	SC (µS)	DO (mg/ L)	ORP (mV)	Est. NO3-N (Test Strip mg-N/L)	Est. NO2-N (Test Strip mg-N/L)
PP01-A	Push-Pull Sampler	11.88	26.7	6.52	653.0	5.95	157.2	40	0
PP01-B	Push-Pull Sampler	11.46	27.6	6.38	618.0	5.99	203.8	30	0
PP02-A	Push-Pull Sampler	12.10	27.8	6.42	65.7	6.59	149.9	0	0
PP03	Push-Pull Sampler	12.17	29.2	6.26	82.6	6.39	134.0	1-2	0
PP04	Push-Pull Sampler	12.08	30.1	7.03	576.0	10+	100.0	30	0
PP05	Push-Pull Sampler	12.08	27.9	4.19	536.0	5.33	228.9	40	0
PP06	Push-Pull Sampler	12.04	22.6	7.00	143.1	7.91	142.3	2-5	0
PP07-A	Push-Pull Sampler	10.79	23.8	3.80	655.0	5.52	261.9	50	0
PP08-A	Push-Pull Sampler	12.13	24.0	6.78	171.4	7.12	156.3	5	0
PP08-B	Push-Pull Sampler	11.13	24.1	6.82	177.0	7.50	155.3	2	0
PP08-C	Push-Pull Sampler	10.13	24.2	6.97	110.6	7.66	108.5	2	0
PP09-A	Push-Pull Sampler	11.96	24.2	6.97	104.2	8.04	126.4	1	0
PP09-B	Push-Pull Sampler	10.46	24.0	6.80	74.3	7.74	109.6	0	0
PP10-A	Push-Pull Sampler	12.04	24.2	6.09	116.5	6.20	161.0	5	0
PP10-B	Push-Pull Sampler	10.54	24.4	6.03	90.3	6.79	147.3	2	0
PZ01	3/4" PZ, 5' screen		23.6	6.10	48.8	7.16	207.0	0	0
PZ02	3/4" PZ, 5' screen		23.1	5.28	113.8	5.92	217.6	0	0
PZ03	3/4" PZ, 5' screen		24.0	5.43	45.9	7.21	236.6	0	0
PZ04	3/4" PZ, 5' screen		23.2	4.84	74.3	4.07	248.2	0	0
PZ05	3/4" PZ, 5' screen		22.9	6.23	97.5	7.75	161.9	0	0
NID - r	o reading was taken								

¹NR = no reading was taken





Appendix B: Mechling Soil and Water Assessment

SOIL AND WATER ASSESSMENT REPORT

TASK C HOMESITE 3 (C-HS3)

FLORIDA ONSITE SEWAGE NITROGEN REDUCTION STRATEGIES STUDY

Prepared for:

Hazen and Sawyer, P.C. 10002 Princess Palm Ave. Suite 200 Tampa, FL 33619

Prepare by:

Mechling Engineering & Consulting, Inc. 1714 Belmonte Avenue Jacksonville, Florida 32207

July 11, 2012

Mechling Engineering & Consulting, Inc.

1714 Belmonte Avenue Jacksonville, FL 32207 phone 904.346.5468 fax 800.705.1968

July 11, 2012

Ms. Josefin M. Edeback-Hirst, P.E. Hazen and Sawyer, P.C. 10002 Princess Palm Avenue Suite 200 Tampa, FL 33619

RE: Soil and Water Assessment Report
Task C Homesite 3 (C-HS3)

Florida Onsite Sewage Nitrogen Reduction Strategies Study

Dear Ms. Edeback-Hirst:

Mechling Engineering & Consulting, Inc. has completed a soil and water assessment associated with the Florida Onsite Sewage Nitrogen Reduction Strategies Study. Our services were provided as requested in the revised scope of work provided by Hazen and Sawyer, P.C. and included the changes directed by Hazen and Sawyer during the field work portion of the assessment. Soil collection, groundwater monitoring, and well installation were completed during the week of June 25-29, 2012. This report summarizes the assessment activities.

1.0 Site Location

Homesite C-HS3 is located a aerial view of the site vicinity.

2.0 Groundwater Assessment

Groundwater assessment included temporary monitoring point installation and groundwater sampling for on-site monitoring and for laboratory analysis. Temporary monitoring points were installed at grid locations 03ML, 03O, and 03A using a direct push drilling rig (see *Figures* attachment - Hazen and Sawyer figure titled *C-HS3 Monitoring Network* for locations.) Drilling services were provided by Environmental Drilling Service, Inc., Orlando, Florida.

A ¾ inch diameter stainless steel screen covered by a screen sheath was placed via direct push method at various intervals from the groundwater table [approximately 10 to 12 feet below land surface (bls)] to a maximum depth of 74 feet bls at location 03O.

When the screen was located at the proper depth, a 2-foot length of sheath was retracted to allow groundwater to flow into the screen. Groundwater samples were then collected with a peristaltic pump and dedicated polyethylene tubing. Sample collection was performed in accordance with FDEP Standard Operating Procedures DEP-SOP-001/01 FS2200. Groundwater field parameters including pH, temperature, conductivity, dissolved oxygen, turbidity, ORP, nitrate, and nitrite were recorded. Samples were also collected for laboratory analysis for chloride. These samples were provided to Hazen and Sawyer personnel for transportation to the laboratory.

Groundwater sampling logs which include the measurement intervals and field parameters are provided in *Attachment 1*.

3.0 Soil Assessment

The soil assessment included collection of soil samples by the direct push method as well as field classification of soil encountered during installation of the permanent groundwater monitoring devices.

Continuous soil samples were collected using the direct push method at locations 03ML and 03O. Soil samples were collected in direct push hollow tubes, capped, and provided to Hazen and Sawyer personnel for transportation to the laboratory.

A hollow stem auger was used to install the permanent groundwater monitoring devices. Soil from the auger flights was classified as the auger was retracted from the ground. Soil encountered generally included tan, brown, grey, orange, and white fine sands. The borings logs from locations 03I, 04O, 04U, and 06N are included in *Attachment 2*.

4.0 Piezometer Installation

Groundwater monitoring devices (i.e., piezometers) were installed using a direct push rig outfitted with a hollow stem auger. Two ¾-inch and one 1-inch diameter PVC piezometers were installed in a stacked cluster at each monitoring location per the direction of Hazen and Sawyer. The screens were isolated by placing a 1-foot layer of ¼-inch bentonite pellets between the screens.

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The length and	OCDIO OF THE SC	Techs for the	STACKED DIEZO	ILICICIA IN AN	IOHIOWS

Table 1 Piezometer Construction Details											
Monitoring Locations (See Figures, C-HS3 Monitoring Network)	00N, 02L, 02N, 03A, 03I, 03K, 03ML, 03O, 04L, 04N, 04O, 06N, 07L	070	00Q, 04Q, 06Q, 07Q	03A	06U	04U					
		Scree	n depth (f	eet bls)							
Upper Screen (1" Diam PVC; 0.01 slot)	10-15	10-15	8-13	NA	7-12	7-12					
Middle Screen (3/4" Diam PVC; 0.01 slot)	16-17	14-15	NA	13-14	13-14						
Lower Screen (3/4" Diam PVC; 0.01 slot)	20-21	19.5-20.5	18-19	29-34	33-34	17-18					

5.0 Slug Testing

Hydraulic Conductivity of the surficial aquifer was determined by conducting field "slug" testing. A slug test consists of placing a data logger into a well, allowing the water level to return to its original level, and then rapidly inserting a solid cylindrical object of known, fixed volume (the "slug") into the well, thereby displacing water. As the slug is inserted into the well the water level rises to a maximum level. The data logger records the increase in the depth of the water level and continuously records depth versus time as the water returns to its original depth. When the water level data is plotted on a logarithmic scale, the resulting curve can be used to determine hydraulic conductivity.

Slug testing was performed at two 2-inch diameter PVC wells installed at grid locations 05M and 05T. The wells used for slug testing were constructed of 2-inch diameter PVC with 5 feet of slotted screen

(0.01-inch slots) and riser to the ground surface. Total depth was 25 feet bls. An In-Situ Level TROLL 700 datalogger and In-Situ Rugged Reader were utilized to measure and record groundwater depth versus time. The data were analyzed and plotted with United States Geological Survey (USGS) spreadsheets, provided in Microsoft Excel format, using the Bouwer and Rice Method.

The hydraulic conductivity calculation for well 05M is 8.6 feet/day. These results are consistent with anticipated values for fine sands. The data for well 05T resulted in inconsistent model output; therefore, the results are not reported.

The Bouwer and Rice Method slug test spreadsheet and graph is included as Attachment 3.

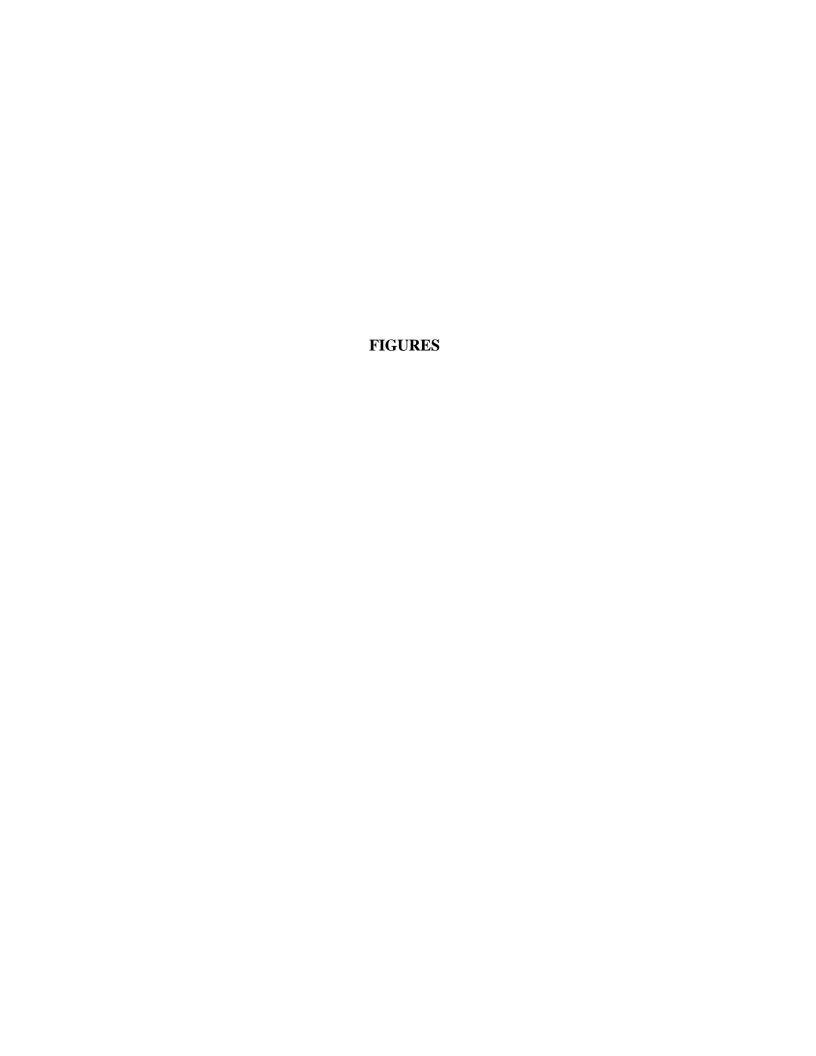
Closing

We appreciate the opportunity to provide these services. Please contact me at 904-346-5468 or mmechling@mechlingeng.com with any questions or comments.

Sincerely,

Mechling Engineering & Consulting, Inc.

Mark Mechling, P.E., LEED AP Principal Florida Professional Engineer, License No. 41998 Engineering Business CA 27999



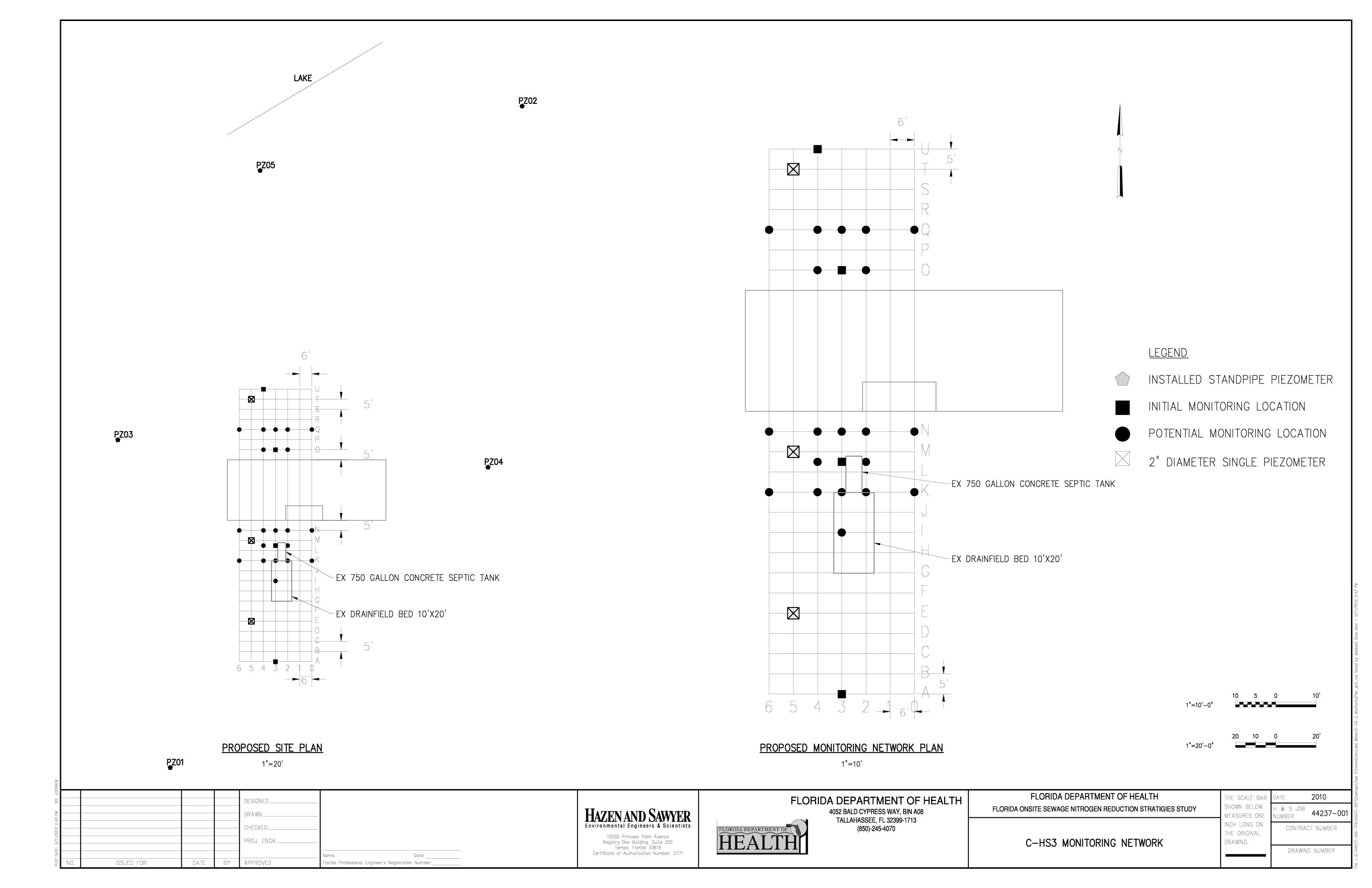


Mechling Engineering & Consulting, Inc.

Engineering Business Certificate of Authorization No. 27999 1714 Belmonte Avenue, Jacksonville, FL 32207 904-396-7456 Project
Florida Onsite Sewage Nitrogen
Reduction Strategies Study

Figure 1 Aerial Photograph -Vicinity of Homesite C-HS3 Lake Wales, Florida





ATTACHMENT 1

GROUNDWATER SAMPLING LOGS

SITE NAME: C	-HS3					SITE								
WELL NO:		63	ML	SAI	MPLE ID:					DATE:	6/2	25/13)	
			1-16		F	URGIN	G DATA	· · · · · · · · · · · · · · · · · · ·			7	11.	······································	
	R (inches): 0.75		IETER (inches	•	DEPTH:	CREEN INTE	10	STATIC D	R (feet):	APRIDA 8		GE PUMP AILER:	TYPE PP	
	LUME PURGE: it if applicable)	1 WELL V	OLUME = (TO	OTAL WELL			DEPTH TO W	-	WELL C		/f t	_		
	NT VOLUME PO nt if applicable)	URGE: 1 E	QUIPMENT V		_	+ (TUBING	CAPACITY		BING LE	NGTH) + FLO	ns/foot W CELL	VOLUME gallons		gallons gallons
I .	JMP OR TUBIN WELL (feet):	G 10		UMP OR TI N WELL (fe			PURGING INITIATED A	T: 9:12	PURC	SING ED AT:	1	TOTAL VO PURGED (:
TIME VOLUME VOLUME PURGE TO WATER (feet) VOLUME PURGED (gallons) (gpm) (feet) VOLUME PURGE RATE (feet) (standard units)						TEMP.	COND. DISSOLVED OXYGEN TUP			TURBIDITY (NTUs)	OR	P NIT	TRATE	NITRITE
	NO	W	ATE	2	W	HEN	7	UM	PIN	1G	81	- 10	21	blr
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											ļ			
							<u> </u>	-			ļ			
	PACITY (Gallon						2" = 0.16;	3" = 0.37;	4" = 0.			" = 1.47;	12" =	
	NSIDE DIA. CAF EQUIPMENT C		l./Ft.): 1/8" = B = Bailer:		3/16" = 0.0 dder Pump	 	* = 0.0026; Electric Subi	5/16" = 0.0 mersible Pun		/8" = 0.006; PP = Peristaltic		0.010; O = C	5/8" = 0 ther (S)	
						·	IG DATA							
1	BY (PRINT) / A		i:	SAMPLE	R(S) SIGN	NATURE(S):			SAMP	LING . TED AT:		SAMPLIN ENDED		
PUMP OR	ig, Mechling Eng TUBING WELL (feet):	gineering		TUBING	AL CODE:				FILTERE			FILTER S		μm
· · · · · · · · · · · · · · · · · · ·	CONTAMINATION	ON: PL	JMP Y	N		BING Y	N (replac		DUPLI		Y	N		****
SAM	PLE CONTAINE	R SPECIFI	CATION		SAM	PLE PRESE	RVATION			TENDED		MPLING	1	PLE PUMP
SAMPLE ID CODE	# CONTAINERS	MATERIA L CODE	VOLUME		RVATIVE		L VOL FIELD (mL)	FINAL pH		/SIS AND/OR NETHOD		JIPMENT CODE		W RATE er minute)
5552								F-1	CH	ILORIDE		APP		
				ļ										
			-									 	ļ	
									<u> </u>		-		ļ	
REMARKS:														
MATERIA	L CODES:	AG = Amb	er Glass; CC	= Clear G	ass; Pl	E = Polyethyl	lene; PP =	= Polypropyle	ene; S	= Silicone; 1	r = Teflo	on; O = 0	Other (S	pecify)
SAMPLING	G EQUIPMENT	CODES:	APP = After RFPP = Rev			B = Bailer; ump; SM	BP = Blad = Straw Meth	ider Pump; nod (Tubing (= Electric Subn rain); O =	nersible Other (S			

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

pH: \pm 0.2 units Temperature: \pm 0.2 °C Specific Conductance: \pm 5% Dissolved Oxygen: all readings \leq 20% saturation (see Table FS 2200-2); optionally, \pm 0.2 mg/L or \pm 10% (whichever is greater) Turbidity: all readings \leq 20 NTU; optionally \pm 5 NTU or \pm 10% (whichever is greater)

^{2.} STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

SITE	uca			3840 V V V		SITE								I
NAME: C			2 111	SAI	MPLE ID:	<u>l</u>				DATE	6/2	5/12		
WEEL NO.	•	0	3 ML	J Ora		URGIN	3 DATA	······································		DATE:	6/2	>112		
	R (inches): 0.75		ETER (inches		WELL SO DEPTH: feet	CREEN INTE	RVAL 12	STATIC D TO WATE	R (feet):			E PUMP AILER:	TYPE PP	
(only fill ou	LUME PURGE: t if applicable)		= (feet -	_		feet) X		gallo	ns/foot			gallons
	NT VOLUME P t if applicable)	URGE: 1 EC	UIPMENT V)L. = PUMF =		+ (TUBING (_	IBING LE	NGTH) + FLO	W CELL			i & gallons
INITIAL PU DEPTH IN	JMP OR TUBIN WELL (feet):	G 12		JMP OR TU N WELL (fe	JBING ,		PURGING NITIATED AT				T	OTAL VO	LUME	:0.16
(gallons) (gallons) (gpm) (feet) units) (C) µmnos/cm mg/L or (NTUS) (grations) (gpm) (feet) (Gpm) (feet) (TUS)										NITRITE				
9:28	0,11	0.11	0.63	(t		4				>0	0.1
5:31	دولالم	0.13	0.02		5.68		468	86.9	17-32	1.79	356		કુંં	0.5
4:40	0,03	0.16	0.61		5.21	23.99	784	56.2/	4.74	0.29	379.	5 1	<u> </u>	2.0
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							 			· <u> </u>				
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								+						
			-		••		. ,	-	·····					
WELL CAP	PACITY (Gallon	s Per Foot):	0.75" = 0.02	1" = 0.0	04; 1.25 ° 3/16 ° = 0.0		" = 0.16; = 0.0026;	3" = 0.37; 5/16" = 0.0	4" = 0.6	35; 5" = 1.0 /8" = 0.006;	2; 6" 1/2" = (= 1.47;	12" = 5 5/8" = 6	
	EQUIPMENT C		7Ft.). 176 - B = Bailer;		lder Pump;		Electric Subm			P = Peristaltic			Other (Sp	
			······································			AMPLIN			<u>''</u>					
SAMPLED	BY (PRINT) / A	FFILIATION:		SAMPLE	R(S) SIGN	ATURE(S):	(SAMPL	ING ST	41	SAMPLII ENDED	NG S	:46
M. Mechlin	g, Mechling Eng	ineering 12		TUBING	/0(FIELD.	FILTERE		<u> l</u>	FILTER S		7 .
	WELL (feet):			MATERI	AL CODE:	PE				ent Type:				
	ONTAMINATIO			N		BING 🕙	N (replace	ed)	DUPLK			(S)	т	
SAMPLE	PLE CONTAINE		ATION	PRESER		PLE PRESER		CINIAI		TENDED SIS AND/OR		PLING PMENT		LE PUMP W RATE
ID CODE	# CONTAINERS	MATERIA L CODE	VOLUME	US	ED	ADDED IN F	IELD (mL)	FINAL pH	М	ETHOD	CC	ODE		er minute)
OSML	1	HOGE		7	4	14	4	NA	СН	LORIDE	A	PP	1 6	.01
				-										
			···			······································					-		ļ	
				ļ					ļ		 		 	
						· · · · · · · · · · · · · · · · · · ·			 				-	
REMARKS:														
MATERIAL	CODES:	AG = Amber	Glass; CG	= Clear Gla	iss; PE	= Polyethy e	ne; PP =	Polypropyle	ne; S=	Silicone; T	= Teflon	; O=0	Other (S	pecify)
	EQUIPMENT		APP = After F RFPP = Reve	rse Flow Pe	ristaltic Pu	•	BP = Bladd Straw Metho	od (Tubing C	Gravity Dr	Electric Submain); O = 0	ersible P Other (Sp			

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

pH: \pm 0.2 units Temperature: \pm 0.2 °C Specific Conductance: \pm 5% Dissolved Oxygen: all readings \leq 20% saturation (see Table FS 2200-2); optionally, \pm 0.2 mg/L or \pm 10% (whichever is greater) Turbidity: all readings \leq 20 NTU; optionally \pm 5 NTU or \pm 10% (whichever is greater)

Revision Date: February 12, 2009

^{2.} STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

SITE NAME: C	ПС3					SITE					-		
WELL NO:		1 1		SA	MPLE ID:					DATE	1120	1.	
WELL NO.	031	16		SAI		LIDCING	DATA			DATE:	6/25	112_	<u></u>
WELL		TUBIN	IG.			URGINO CREEN INTE		STATIC DI	FPTH		PURGE P	UMP TYPE	
DIAMETER	R (inches): 0.75	DIAME	ETER (inches	•	DEPTH: feet	1 Z feet to	14	TO WATE	R (feet):		OR BAILE		
	LUME PURGE: t if applicable)	1 WELL VO	DLUME = (TC	OTAL WELL	DEPTH -		EPTH TO W	ATER) X feet) X	WELL C		ns/foot =		gallons
	NT VOLUME Po t if applicable)	URGE: 1 EQ	UIPMENT)L. = PUMF	VOLUME	+ (TUBING (X TU		NGTH) + FLO	W CELL VO	_UME allons = O .	
INITIAL PU	JMP OR TUBIN WELL (feet):	G 14		JMP OR TU N WELL (fe	JBING 1	, F	PURGING NITIATED A	9,52			TOTA	AL VOLUME GED (gallons	
TIME	(gallons) (gallons) (gpm) (feet)						COND. (circle units µmhos/cm or µS/cm	DISSO OXY (circle	DLVED GEN units)	TURBIDITY (NTUs)	ORP	NITRATE	NITRITE
9:55	8.19	0.19	0.06	(5.78	54.38	536	25.1	2.22	25.8	92.6	160	6.5
10,00	0.34	0.31	0.04		4-54	24.53	238	31.3				60	4.2
10.06	c. 36	0.67	0.05		3.98	54-23	541	12.8	13.52	2,15	284.7	60	16.Z
							ļ						
	ļ	ļ						 		<u> </u>			
						-	ļ						ļ
<u> </u>							 						
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						 	 				-		
	PACITY (Gallon						2" = 0.16;	3" = 0.37;	4" = 0.				
	ISIDE DIA. CAI EQUIPMENT C		/Ft.): 1/8" = B = Bailer:		3/16" = 0.0 ider Pump;		= 0.0026; Electric Subr	5/16" = 0.0		/8" = 0.006; PP = Peristaltic	1/2" = 0.01	0; 5/8" = 0 = Other (S	
						MPLIN			· /	. , , , , , , , , , , , , , , , , , , ,			podiny
	BY (PRINT) / A		-	SAMPLE	R(S) SIGN	ATURE(S)	1		SAMPI	LING TED AT:		MPLING DED AT:	
PUMP OR	g, Mechling Eng TUBING			TUBING		- <i>V V</i>	<u>/ (</u>	FIELD-I	FILTERE			TER SIZE:	µm
DEPTH IN	WELL (feet):	(4			AL CODE:	PE			· · · · ·	ent Type:		_	
	CONTAMINATIO			S		BING (Y)	N (replac	ea)	DUPLI		Y 69	<u></u>	
SAMPLE	PLE CONTAINE	ER SPECIFIC		PRESE	SAMI RVATIVE I	PLE PRESER TOTAL		FINAL	ANAL	TENDED (SIS AND/OR	SAMPLI EQUIPM	ENT FLO	PLE PUMP OW RATE
ID CODE	CONTAINERS	L CODE	VOLUME	US	ED	ADDED IN		pH		ETHOD	CODE		per minute)
63ML 112	/17	HOGE		N	4				CF	ILORIDE	APP	0	که.
									<u> </u>		1		
		-		<u> </u>							 		
 				†									
REMARKS:													
MATERIAL	L CODES:	AG = Ambei	Glass; CG	= Clear Gi	ass; PE	= Polyethyle	ne; PP=	Polypropyle	ene; S	= Silicone; 1	= Teflon;	O = Other (S	Specify)
SAMPLING	G EQUIPMENT		APP = After I RFPP = Reve			3 = Bailer; mp; SM :	BP = Blad = Straw Meth			Electric Submrain); O =	nersible Pum Other (Speci		

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

pH: \pm 0.2 units Temperature: \pm 0.2 °C Specific Conductance: \pm 5% Dissolved Oxygen: all readings \leq 20% saturation (see Table FS 2200-2); optionally, \pm 0.2 mg/L or \pm 10% (whichever is greater) Turbidity: all readings \leq 20 NTU; optionally \pm 5 NTU or \pm 10% (whichever is greater)

^{2.} STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

SITE NAME: C	-H63					SITE							Florida	•
	©3M			SA	MPLE ID:	<u> </u>				DATE:	110	5/12	ioriae	<u> </u>
	€ S M	<u>レ</u>				URGINO	S DATA				012	*112		
WELL DIAMETER	R (inches): 0.75	TUBIN DIAMI	IG ETER (inches): 0.25	WELL S	CREEN INTE	RVAL	STATIC D		·		SE PUMP '	TYPE PP	
	LUME PURGE: t if applicable)	1 WELL VO)LUME = (T(TAL WELI			EPTH TO W	ATER) X	WELL C		ns/foot	=		gallons
	NT VOLUME Po t if applicable)	URGE: 1 EQ	UIPMENT VO		VOLUME	+ (TUBING C		X TU		NGTH) + FLO	W CELL	VOLUME	=0.)	
I .	IMP OR TUBIN WELL (feet):	G 16		JMP OR TO N WELL (fe	JBING)		HIDCING	T: 10:19	DUDO	SING	7	TOTAL VO PURGED (LUME	
TIME	(gallons) (gallons) (gpm) (feet) uni						TEMP. (circle units)			TURBIDITY (NTUs)	ORI		(RATE	NITRITE
10:20	0-19	0.19	0.19	•	6-42		228	21.9		359	-3.		٠ ا	6,2
15:23	0.12	0-31	5.18		6-21	21.75	249	27.1/		144	90.	· + ~		0, 2
10:28	0-12	0.43	0.05		6.12	24.54	241	38.2	13.13	40.0	121.	3 8	0	0,2
							<u> </u>	_			-			
		 				+								
			<u> </u>				ļ		e e					
ļ				··										
WELL CAP	PACITY (Gallon ISIDE DIA. CAI	s Per Foot):	0.75" = 0.02 /Ft): 1/8" =	1" = 0.	04; 1.25 3/16" = 0.0		!" = 0.16; = 0.0026;	3" = 0.37; 5/16" = 0.0		65; 5" = 1.0 /8" = 0.006;		' = 1.47; 0.010;	12" = 5	
· · · · · · · · · · · · · · · · · · ·	EQUIPMENT O		B = Bailer;		dder Pump			nersible Pun		PP = Peristaltic			ther (Sp	
						AMPLIN	G, DATA	1						
SAMPLED	BY (PRINT) / A	FFILIATION:		SAMPLI	R(S) SIGN	TURE(S):	1/		SAMP			SAMPLIN		
	g, Mechling Eng	gineering		TURNIC			VI	- FIELD	<u> </u>	TED AT:		ENDED A		
PUMP OR DEPTH IN	WELL (feet):	16		TUBING MATER	AL CODE:	PE			FILTERE n Equipm	D: Y N nent Type:		FILTER S	IZE:	μm
FIELD DEC	CONTAMINATIO	ON: PU	MP Y (N)	TU	BING (Y)	N (replac	ed)	DUPLI	CATE:	′ (<u>S</u>		
SAME	PLE CONTAINE		ATION			PLE PRESER				TENDED		/PLING		LE PUMP
SAMPLE ID CODE	# CONTAINERS	MATERIA L CODE	VOLUME		RVATIVE SED	TOTAL ADDED IN F		FINAL pH		/SIS AND/OR IETHOD		IPMENT ODE		W RATE er minute)
3 MU-14-11		4066			A	11000011111	ices (iiie)	<u> </u>	CH	ILORIDE	1	APP	0	که.
				<u> </u>						· •				
REMARKS:														
MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)														
MATERIAL SAMPLING	CODES:	AG = Ambe	APP = After I	= Clear G		= Polyethyle B = Bailer;		Polypropyle		= Silicone; T = Electric Subm	= Teflo		Jiner (S	pecity)
SAMPLING	, EQUITMENT		RFPP = Reve					od (Tubing (Other (S			

pH: \pm 0.2 units Temperature: \pm 0.2 °C Specific Conductance: \pm 5% Dissolved Oxygen: all readings \leq 20% saturation (see Table FS 2200-2); optionally, \pm 0.2 mg/L or \pm 10% (whichever is greater) Turbidity: all readings \leq 20 NTU; optionally \pm 5 NTU or \pm 10% (whichever is greater)

Revision Date: February 12, 2009

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

^{2.} STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

SITE	Hes					SITE	SITE Wales, Florida								
NAME: C-HS3 WELL NO: 5 3 ML SAMPLE ID:							DATE: 6/25/12								
PURGING DATA															
1	R (inches): 0.7	l	ETER (inches	•	WELL SO DEPTH: feet	REEN INTE	EEN INTERVAL STATIC DEPTH TO WATER (feet):					PURGE PUMP TYPE OR BAILER: PP			
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)															
= (feet - feet) X gallons/foot = , gallons EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable) = © gallons + (© . © 26 gallons/foot X 2 feet) + gallons = © freet) feet)															
INITIAL PUMP OR TUBING DEPTH IN WELL (feet):							PURGING INITIATED A	10:39	PURC	GING ED AT:	L VOLUME SED (galions)				
TIME VOLUME VOLUME PURGE PURGED RATE (gallons) (gallons) (gpm)		DEPTH TO WATER (feet)	pH (standard units)	TEMP.	COND. (circle units	OXY (circle mg/ % sat	OLVED 'GEN e units) 'L <u>or</u> uration	TURBIDITY (NTUs)	ORP	NITRATE	NITRITE				
N: 42	0.19	0-19	0.06		684	23.69	- 		3.04	Er?	803	TOC TI			
16.40	0.75	094	0.6		6.49	23.8			7.81	1,	£ 00.5		743 C		
12.75	2.0	1,44	0.09		6,44	23.83			(3.56	1,	2187	40	10 65 m		
11:04	0.12	1.57	0.00		6.46	23,43	286	10.2	13.41		2-61	73	ie		
ļ	1					 	ļ	 							
WELL CA	PACITY (Gallon	e Per Footh	0.75" = 0.02	1" = 0.0)4· 1 25'	' = 0.06; ;	2" = 0.16;	3" = 0.37:	4" = 0.0	35: 5" = 1.0	2: 6" = 1.4	17: 12" = 9	5.88		
TUBING I	NSIDE DIA. CAI	PACITY (Gal.	/Ft.): 1/8" = (0.0006;	3/16" = 0.0	014; 1/4"	= 0.0026;	5/16" = 0.0	004; 3	/8" = 0.006;	1/2" = 0.010); 5/8" = (0.016		
PURGING	EQUIPMENT	ODES: E	3 = Bailer;	BP = Blac	lder Pump;		Electric Subn		np; F	PP = Peristaltic	Pump; () = Other (Sp	pecify)		
1	BY (PRINT) / A		·	SAMPLE		ATUKE(S):	h	<u> </u>	SAMPI	LING TED AT:		IPLING DED AT:			
PUMP OR		18		TUBING	AL CODE:	PE			FILTERE	D: Y N ent Type:	FILT	ER SIZE:	µm		
	CONTAMINATION	ON: PU	AP Y			BING (Y	N (replace		DUPLIC		N				
SAM	PLE CONTAINE	R SPECIFIC	ATION	Ī	SAMF	LE PRESE	RVATION		IN.	TENDED	SAMPLIN		LE PUMP		
SAMPLE # MATERIA VOLUME PRESER ID CODE CONTAINERS L CODE USI				VATIVE		TOTAL VOL DED IN FIELD (mL)		FINAL ANALYSIS		EQUIPME CODE		W RATE er minute)			
ML-16-		HOPE		NA			,,,,,,,	E::	СН	LORIDE	APP	٥.	06		
				ļ											
													Z		
REMARKS:															
MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teffon; O = Other (Specify) SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)															
NOTES: 1	. The above o														

^{2.} STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Fable FS 220) 2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

SITE NAME: C-	HS3 ട്ര [ി]	3 ML				SITE						s, Florid	а	
WELL NO:		4- ' ` -	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	SAI	MPLE ID:					DATE:	21	25/1	- 'と	
					Pl	JRGING	DATA					1 1.		
WELL DIAMETER	(inches): 0.75	TUBIN	IG ETER (inches)	: 0.25	WELL SCI	REEN INTER	RVAL	STATIC DE TO WATER			PURGE PI OR BAILE	UMP TYPE R: (PP		
	JME PURGE: f applicable)	1 WELL VO	DLUME = (TC	TAL WELL	DEPTH -	STATIC DE	PTH TO WA	TER) X	WELL C	APACITY	J			
	F VOLUME P (f applicable)	JRGE: 1 EQ	= (UIPMENT VO)L. = PUMF =	feet – VOLUME + gallons +					gallo NGTH) + FLOV feet) +		, –	gallons dallons	
INITIAL PUN DEPTH IN V	IP OR TUBING	g So	FINAL PL	JMP OR TU	JBING >	Гр	URGING IITIATED AT:		DURC	SING	TOTA	L VOLUME SED (gallons	12.4	
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP.	COND. (circle units) μmhos/cm <u>or</u> μS/cm	DISSOI OXYO (circle u mg/L % satu	LVED SEN units) or	TURBIDITY (NTUs)	ORP	NITRATE	NITRITE	
11:16	0.19	0.19	0.19		6-62	21.16	210	78.2/		E~3	8.8	7007	res	
11:22	0.25	0.44	0.06		6.55	24.19	156	34.5/			96.6		4	
11:26	0.12	0.56	0.05		6.55	24-21	146	36.7/	3.09		104.2	10	4	
	ACITY (Gallon							3" = 0.37; 5/16" = 0.00		35; 5" = 1.0	2; 6" = 1. 1/2" = 0.01			
	QUIPMENT C		3 = Bailer;		der Pump;		lectric Subme			PP = Peristaltic		0;		
							G DATA						· · · · · · · · · · · · · · · · · · ·	
	Y (PRINT) / A			SAMPLE	R(S) SIGNA	TURE(\$):	$1/ _{\Lambda}$		SAMPL	LING FED AT:		MPLING DED AT:		
PUMP OR T		20		TUBING		PR	/ / \	FIELD-F	ILTERE	D: Y (N)		TER SIZE: _	μm	
DEPTH IN V	VELL (TEET): ONTAMINATIO		MP (Y)	NATERI	AL CODE: TUB		N (replaced		Equipm DUPLI	ent Type:		· · · · · · · · · · · · · · · · · · ·	·	
SAMP	E CONTAINE	R SPECIFIC		T	SAMP	LE PRESER		,	IN:	TENDED	SAMPLI	NG SAM	PLE PUMP	
					RVATIVE	TOTAL ADDED IN F				'SIS AND/OR IETHOD	EQUIPME		(mL per minute)	
ML -18-22		HPPE		NA				F:-	СН	ILORIDE	APP	6	20.	
													· · · · · · · · · · · · · · · · · · ·	
REMARKS:		<u>. </u>			l.,								······································	
MATERIAL		AG = Amber		= Clear Gl		= Polyethyle	·····	Polypropyle			= Teflon;	O = Other (\$	Specify)	
	EQUIPMENT		APP = After F RFPP = Reve	rse Flow P	eristaltic Pun	• •	BP = Bladde Straw Metho Chapter 62-	d (Tubing G	ravity D	Electric Submain); O = 0	Other (Specif			

pH: \pm 0.2 units Temperature: \pm 0.2 °C Specific Conductance: \pm 5% Dissolved Oxygen: all readings \leq 20% saturation (see Table FS 2200-2); optionally, \pm 0.2 mg/L or \pm 10% (whichever is greater) Turbidity: all readings \leq 20 NTU; optionally \pm 5 NTU or \pm 10% (whichever is greater)

Revision Date: February 12, 2009

^{2.} STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

SITE	1100				-	SITE							Florida			
NAME: C-HS3 WELL NO: 03 ML SAMPLE ID:								DATE: 6/25/12								
WELL NO: 03ML SAMPLE ID: DATE: 6/25/12 PURGING DATA																
WELL TUBING WELL SCR DIAMETER (inches): 0.75 DIAMETER (inches): 0.25 DEPTH: 2 feet							RVAL	EPTH R (feet):				PUMP TYPE LER: PP				
	LUME PURGE: t if applicable)	1 WELL VO	DLUME = (To	OTAL WELI	DEPTH feet		EPTH TO W		WELL C		ns/foot	-	•	gallons		
	NT VOLUME Pot if applicable)	URGE: 1 EQ	UIPMENT V	OL. = PUMF	VOLUME	+ (TUBING + (32-		feet) X X TU		NGTH) + FLO	W CELL	VOLUM				
INITIAL PU DEPTH IN		PURGING INITIATED AT: 11-37 PURGING ENDED AT: 11.40						TOTAL VOLUME								
TIME VOLUME PURGED (gallons) (gallons) DEPTH II CUMUL. VOLUME PURGED RATE (gpm)		DEPTH TO WATER (feet)	pH (standard units) TEMP.		COND. (circle units µmhos/cm or µS/cm	(circle units)		TURBIDITY (NTUs)		ORP NITRATE		NITRITE				
11:38	0.20	0.20	0.20		6.66	24.29	181		7.77	E + - 3	+			188 ID		
11:42	6.12	0.32	0.06		6.55	24.3	181		2.27	Erv 3	161.		50	Trapio		
11:46	0.12	0.44	0.55		6.45	24.26	171	28.3/	2.37	ti .	173	<i>,</i> 0 <	20	٠,		
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					ļ											
WELL CAR	PACITY (Gallon	s Per Foot)	0.75" = 0.02	1" = 0	04· 1.25	" = 0.06;	2" = 0.16;	3" = 0.37;	4" = 0.	65; 5" = 1.0)2· 6 "	= 1,47;	12" = !	5.88		
TUBING IN	ISIDE DIA. CA	PACITY (Gal		0.0006;	3/16" = 0.0	014; 1/4 "	= 0.0026;	5/16" = 0.0	004; 3	/8" = 0.006;	1/2" =		5/8" = (
PURGING	EQUIPMENT (ODES:	B = Bailer;	BP = Blac	dder Pump;		Electric Subr		np; F	P = Peristaltic	Pump;	0 =	Other (Sp	pecify)		
SAMPLED.	BY (PRINT) / A	FEILIATION:		SAMPLE			G DATA	1	Γ.							
	SAMPLED BY (PRINT) / AFFILIATION: SAMPLER(S) SIGNA							1	SAMP	LING FED AT:		SAMPLI				
PUMP OR	g, Mechling Eng TUBING			TUBING		PE		FIELD-I	FILTERE			FILTER	SIZE:	μm		
	WELL (feet):	22		_	AL CODE:	 	 		1	ent Type:				·		
·	CONTAMINATIO		····	N		BING 🕜		ed) 	DUPLI		т —	<u> Sv</u>	1			
	PLE CONTAINE		ATION	DDCCC	PLE PRESE		FINAL	AMALYSIS AND/OD FOURDMENT I					PLE PUMP W RATE			
SAMPLE ID CODE	CONTAINERS	MATERIA L CODE	VOLUME) US	RVATIVE ED		TOTAL VOL ADDED IN FIELD (mL)		METHOD		CODE		(mL per minute)			
ML-25-	22 (RDGB	25>	N	Δ				CH	CHLORIDE		APP		50-0		
				ļ							<u> </u>		<u> </u>			
								<u> </u>			ļ		ļ			
		<u></u>		<u> </u>			y=	L,								
REMARKS:																
MATERIAL	CODES	AG = Ambe	Class: C	= Close Cl	ace: PE	= Polyethyle	ene: DP -	Polypropyle	ne. e	= Silicone; T	= Teflon	. 0-	Other (S	necify)		
MATERIAL	G EQUIPMENT		APP = After	= Clear GI Peristaltic P		B = Bailer:	BP = Blad			Electric Subm		<u> </u>	Julei (3)	poory;		
OURIL FILM	WON INC. 1		RFPP = Reve				= Straw Meth				Other (Sp					

pH: \pm 0.2 units Temperature: \pm 0.2 °C Specific Conductance: \pm 5% Dissolved Oxygen: all readings \leq 20% saturation (see Table FS 2200-2); optionally, \pm 0.2 mg/L or \pm 10% (whichever is greater) Turbidity: all readings \leq 20 NTU; optionally \pm 5 NTU or \pm 10% (whichever is greater)

Revision Date: February 12, 2009

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

^{2.} STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

SITE NAME: C	:-HS3					SITE						ales	Florida	a
WELL NO		MI_		SAI	MPLE ID:		1			DATE:	61	> <	12	<u> </u>
<u></u>		1			P	URGING	DATA				<u> </u>			
	R (inches): 0.75		TER (inches)		DEPTH:	REEN INTER	32	STATIC D TO WATE	R (feet):		1	SE PUM AILER:	IP TYPE PP	
	LUME PURGE: ut if applicable)	1 WELL VO)LUME = (TC	TAL WELL	DEPTH -		PTH TO W	ATER) X feet) X	WELL C		ns/foot	=		gailons
	NT VOLUME Pout if applicable)	URGE: 1 EQ	UIPMENT VC)L. = PUMF =	VOLUME	+ (TUBING C + (O . % % 2		X TU	IBING LE	NGTH) + FLO		VOLUI	ME ns = O,	≥ <i>S</i> gallons
	UMP OR TUBIN I WELL (feet):	^G 32		JMP OR TU N WELL (fe		, P	URGING IITIATED AT	1210	PURC	ING D AT:			VOLUME D (gallons)	
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	OXY (circle	OLVED (GEN o units) 'L or uration	TURBIDITY (NTUs)	OR	Р	NITRATE	NITRITE
12:00		0.23	6.68	***************************************	6.88	24-39	447	3.7	0.31	803	-108		20	0
12:11	0.25	0.47	0.00		608				5.75	11	42.		20	D
12:14		0.60	0,05		5.40	24.24	956		0.35		76.		20	0
12:18	9.12	0.72	0.05		5.77	24.19	347	4-1/	6.34	<u>.,</u>	31.	7	20	0
		-						 						
				-		-								
WELLCA	PACITY (Gallon	s Per Foot\	0.75" = 0.02	1" = 0.0)4· 1 25"	' = 0.06; 2'	" = 0.16:	3" = 0.37:	4" = 0.6	35; 5 " = 1.0	2. 6"	= 1.47;	12" = 5	5.88
TUBING I	NSIDE DIA. CAI	PACITY (Gal.	/Ft.): 1/8" = (0.0006;	3/16" = 0.00)14; 1/4" =	0.0026;	5/16" = 0.0	004; 3	8" = 0.006;	1/2" =	0.010;	5/8" = (0.016
PURGING	EQUIPMENT C	ODES: E	3 = Bailer;	BP = Blad	lder Pump;	MPLIN	Electric Subm	ersible Pun	np; P	P = Peristaltic	Pump;		Other (Sp	ecity)
SAMPLED	BY (PRINT) / A	FFILIATION:		SAMPLE	R(S) SIGN		1/1		SAMPL		I	SAMP	LING	
	ng, Mechling Eng	gineering				1	101		INITIAT	ED AT:		ENDE	D AT:	
PUMP OR DEPTH IN	TUBING WELL (feet):	22		TUBING MATERIA	AL CODE:	PE	_		FILTEREI n Equipm			FILTER	R SIZE:	μm
FIELD DE	CONTAMINATIO	ON: PU	AP Y	الآ	TUE	ING 🕎	N (replace		DUPLK		′ (₹		
	PLE CONTAINE		ATION			LE PRESER				TENDED SIS AND/OR		IPLING		LE PUMP W RATE
SAMPLE ID CODE	# CONTAINERS	MATERIA L CODE	VOLUME	PRESER UŞ	ED	TOTAL ADDED IN F		FINAL pH		ETHOD		ODE	(mL p	er minute)
3 ML . 30	-32 \	(+ DPE	250	7	A				СН	LORIDE	F	\PP	0.0	کلا
											ļ		_	
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						· · · · · · · · · · · · · · · · · · ·								
DEMAGE														
REMARKS	5:													
MATERIA	L CODES:	AG = Amber	Glass; CG	= Clear Gla	ass; PE	= Polyethyler	ne; PP =	Polypropyle	ene; S=	Silicone; T	= Teflor	n; O	= Other (Sp	pecify)
	G EQUIPMENT	ı	APP = After P RFPP = Reve	rse Flow Pe	ristaltic Pur	• •	BP = Bladd Straw Metho	d (Tubing C	Gravity Dr	Electric Submain); O = 0	ersible F Other (S			

^{2.} STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

SITE	1100					SITE						S ha Flawi	al a.
NAME: C		141		1		1						es, Flori	ua
WELL NO:	03	ML		SAI	MPLE ID:					DATE:	6/2	3/5%	
						JRGING					T		
DIAMETER	R (inches): 0.75	TUBIN DIAMI	IG ETER (inches)	: 0.25		REEN INTER	₹ 2	STATIC D TO WATE			OR BAIL	PUMP TYPE ER: PP	
(only fill ou	UME PURGE: t if applicable)		•						WELL C				
EQUIPME	NT VOLUME PI	URGE: 1 EQ	= (UIPMENT VO	L. = PUMF	feet - • VOLUME +	(TUBING C	APACITY	feet) X X TU	BING LE	gallo NGTH) + FLO	ns/foot = W CELL VC	DLUME	gallons
	t if applicable)			=			gallons/foo	ot x 5	2	feet) + 🐧 🛚	125	gallons = O ,	2 6 gallons
	IMP OR TUBIN WELL (feet):	G 42		MP OR TU NWELL (fe		2 P	URGING IITIATED AT	13:01	PURC ENDE	SING ED AT: (3:1	Y TOT	TAL VOLUME RGED (gallon	
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	OXY (circle mg/l		TURBIDITY (NTUs)	ORP	NITRATE	NITRITE
(3:10	0.26	0.26	0.13	``	6.60	24.60	392	12.2	6.94	E-3	-488.	3 20	0
13:13	0,25	0.51	0.10		6.27	24.65	367		0.14	Er2	-361.0		0
13:17	0.29	0.76	0.08		5.99	24.73	357	1.9	ها.ه	斯 3	-36u.1	8 40	0
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												<u> </u>	
	PACITY (Gallon				04; 1.25" 3/16" = 0.00			3" = 0.37; 5/16" = 0.0		65; 5" = 1.0 /8" = 0.006;)2, 6" = 1/2" = 0.0		= 5.88 = 0.016
PURGING	EQUIPMENT C	ODES: I	3 = Bailer;	BP = Blac	ider Pump;	ESP = E	lectric Subm	ersible Pun	np; F	PP = Peristaltic	Pump;	O = Other (Specify)
							G DATA						
	BY (PRINT) / A g, Mechling Eng			SAMPLE	R(S) SIGNA	(TURE(\$):	M		SAMPI	LING TED AT:		AMPLING NDED AT:	
PUMP OR		42		TUBING	AL CODE:	PE	2.		FILTERE	D: Y N) FII	LTER SIZE:	μm
	CONTAMINATION			N)	TUB	ING 💮	N (replace		DUPLI		Y (4))	
SAM	PLE CONTAINE	R SPECIFIC	ATION			LE PRESER				TENDED	SAMPL		APLE PUMP
SAMPLE ID CODE	# CONTAINERS	MATERIA L CODE	VOLUME	PRESER		TOTAL ADDED IN F		FINAL pH		(SIS AND/OR IETHOD	EQUIPM		OW RATE per minute)
3ML-46		14066	250	+	N-				CH	ILORIDE	API	9	
				-					 		 		
REMARKS	:												
MATERIAL	. CODES:	AG = Amber	Glass; CG	= Clear Gl	ass; PE	= Polyethyle	ne; PP = 1	Polypropyle	ene; S	= Silicone; T	= Teflon;	O = Other	(Specify)
SAMPLING	EQUIPMENT		APP = After F RFPP = Reve			= Bailer; np; SM =	BP = Bladd Straw Metho		Gravity D	Electric Submrain); O =	nersible Pun Other (Spec		

pH: \pm 0.2 units Temperature: \pm 0.2 °C Specific Conductance: \pm 5% Dissolved Oxygen: all readings \leq 20% saturation (see Table FS 2200-2); optionally, \pm 0.2 mg/L or \pm 10% (whichever is greater) Turbidity: all readings \leq 20 NTU; optionally \pm 5 NTU or \pm 10% (whichever is greater)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

^{2.} STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

			·····											
SITE NAME: C-	-HS3					SITE		· ·				es.	Florida	а
WELL NO:		ML		SAI	MPLE ID:					DATE:	6/2	C 12		
		1,71			F	PURGING	3 DATA					<u> </u>		
WELL DIAMETER	R (inches): 0.78	TUBIN DIAM	NG ETER (inches	i): 0.25	WELL S	CREEN INTE	RVAL	STATIC D TO WATE		_	PURG OR BA	E PUMF	TYPE)
	.UME PURGE: t if applicable)	1 WELL VO	OLUME = (TO	OTAL WELL	DEPTH	- STATIC D	EPTH TO W	ATER) X	WELL C					
EQUIPMEN	NT VOLUME P	URGE: 1 EC	= (QUIPMENT VO	OL. = PUMF	feet VOLUME	- + (TUBING (CAPACITY	feet) X X TU	IBING LE	gallo NGTH) + FLO	ns/foot W CELL	= VOLUMI	E	gallons
(only fill out	if applicable)			= C	> gallons	s+(0.003	ර gallons/fo	oot X 62		feet) + D.	125	gallon	s _0.3	28 gallons
	MP OR TUBIN WELL (feet):	IG 52		UMP OR TU N WELL (fe		5 2 F	PURGING NITIATED A	т: 13:3 8	PURC ENDE			OTAL V		
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP	COND. (circle units µmhos/cir or µS/cm	DISSO OXY (circle mg/	OLVED 'GEN units) Lor uration	TURBIDITY (NTUs)	ORP		IITRATE	NITRITE
17:40	0.28	2.28	0. (4		7.00	26,60	424		6.90	706	-427	.1	30	0
17:44		1.03	0.17		5.73	52.11	328	2.9	0.23		- 47.		30	0
13:47	0.25	1,28	014		2.28	25.13	323	2.6/	b.22	432	-61.	7	30	0
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		+	 									-		
		 	-								 	•		
	PACITY (Gallor ISIDE DIA. CA				04; 1.25 3/16" = 0.0		!" = 0.16; = 0.0026;	3" = 0.37; 5/16" = 0.0	4" = 0.0	65; 5 " = 1.0 /8" = 0.006;)2; 6" : 1/2" = (= 1.47; 0.010:	12" = 5	
	EQUIPMENT (B = Bailer;		der Pump	; ESP=	Electric Subr	nersible Pun		PP = Peristaltic			Other (Sp	
						AMPLIN	G DATA	<u> </u>						
	BY (PRINT) / A		:	SAMPLE	R(S) SIGN	TURE(S)	1		SAMPI	LING TED AT:	52	SAMPLI ENDED	NG AT:	3:56
PUMP OR		7.3	•	TUBING	AL CODE:	PE				D: Y N ent Type:	>	FILTER	SIZE: _	<u> µ</u> т
	ONTAMINATIO	ON: PU	IMP Y (1		IBING 🛇	N (replac		DUPLI		Υ 6	<u> </u>		
SAMF	PLE CONTAIN	ER SPECIFIC	CATION	T	SAM	PLE PRESER	RVATION			TENDED	SAM	PLING		PLE PUMP
SAMPLE ID CODE	# CONTAINERS	MATERIA L CODE	VOLUME		RVATIVE	TOTAL ADDED IN I		FINAL pH		'SIS AND/OR IETHOD		PMENT DDE		OW RATE per minute)
3ML -\$		HDGE	250	-		ADDEDIN	ILLD (IIIL)	- pii	СН	ILORIDE	A	PP	٦.	14
			-3								1		1	
									ļ		<u> </u>			
		<u> </u>	<u> </u>	<u> </u>					<u> </u>					
REMARKS	TETO	A EA	.54 5	TRIFE	5									
MATERIAL		AG = Ambe		= Clear Gl	ass: Pr	E = Polyethyle	ne: PP =	Polynronyle	ene: S:	= Silicone; 1	= Teflon	. n=	Other (S	pecify)
	EQUIPMENT		APP = After I			B = Bailer:		der Pump;		Electric Subm			20101 10	P-0017/
			RFPP = Reve					od (Tubing (Other (Sp			İ

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

pH: \pm 0.2 units Temperature: \pm 0.2 °C Specific Conductance: \pm 5% Dissolved Oxygen: all readings \leq 20% saturation (see Table FS 2200-2); optionally, \pm 0.2 mg/L or \pm 10% (whichever is greater) Turbidity: all readings \leq 20 NTU; optionally \pm 5 NTU or \pm 10% (whichever is greater)

^{2.} STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

SITE NAME: C-	ПGЗ			_		SITE							T		
WELL NO:	031	MA I				i_						12			
L	<u> </u>	<u> </u>				PURGIN	G DATA								
	(inches): 0.75		ETER (inches)		WELL S DEPTH: feet	GREEN INTE	RVAL 62	STATIC D TO WATE	R (feet):		PURGE PU OR BAILER				
	UME PURGE: if applicable)	1 WELL VO	OLUME = (TC	TAL WELL	DEPTH		DEPTH TO W		WELL C		ns/foot =		gallons		
	T VOLUME Poil (1) if applicable)	URGE: 1 EQ	UIPMENT		VOLUME	+ (TUBING	CAPACITY	X TU		NGTH) + FLO	W CELL VOL Jaga	_			
INITIAL PUN DEPTH IN V	MP OR TUBIN WELL (feet):	G 62	FINAL PU	JMP OR TU N WELL (fe	JBING	12	PURGING INITIATED A	14:04	PURC ENDE		 				
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP.	COND. (circle units umhos/cm or µS/cm	OXY (circle mg/ % satu	OLVED GEN units) Lor uration	TURBIDITY (NTUs)	ORP	NITRATE	NITRITE		
14:06	0.31	6.31	0.16	-	6.13	25.7			0.75		-23.4	30	0		
19:09	0.25	0.56	011		5.27				0.27	E-3	37.5	30	0		
14:12	0.52	0.81	0.10		4.95	25.4	363	3.8/	0.31	774	31.5	30	•		
MELL CAD	ACITY (Gallon	o Day Footh	0.75" - 0.00	47 - 0	04; 1.2 5	" = 0.06:	2" = 0.16 ;	3" = 0.37;	4" = 0.0	65; 5" = 1.0	2; 6" = 1.4	47: 12" = :	F 00		
	SIDE DIA. CAI					0014; 1/4 "		5/16" = 0.0		/8" = 0.006;	1/2" = 0.010				
PURGING E	QUIPMENT C	ODES:	B = Bailer;	BP = Blac	der Pump	<u> </u>	Electric Subr		np; F	PP = Peristaltic	Pump;	O = Other (S	pecify)		
SAMPLED E	BY (PRINT) / A	FFILIATION:		SAMPLE		ANTURE(S):	IG DATA	•	CAMPI	INC	CAN	IDLING. #	• •		
ļ	, Mechling Eng				//		M		SAMPI	TED AT:	:17 END	MPLING PED AT	91.		
PUMP OR T DEPTH IN V	UBING	62	_	TUBING	AL CODE:	96			FILTERE	D: Y (N)	FILT	ER SIZE:	μm		
	ONTAMINATIO		MP Y (N)		BING (Y) N (replac		DUPLI		<u>((b)</u>				
SAMPI	LE CONTAINE	R SPECIFIC		Ĭ	SAM	PLE PRESE	RVATION		IN	TENDED	SAMPLIN		PLE PUMP		
SAMPLE ID CODE	# CONTAINERS	MATERIA L CODE	VOLUME		RVATIVE		L VOL FIELD (mL)	FINAL pH		/SIS AND/OR IETHOD	EQUIPME CODE		W RATE er minute)		
3MC-60		HODE	250	00	<u> </u>	ADDEDIN	TIELD (IIIL)	>	CH	ILORIDE	APP	٥.	10		
					· · · · · ·										
<u> </u>					 						 				
REMARKS:		<u>L</u>		<u> </u>		<u> </u>			<u> </u>		L				
													ļ		
MATERIAL	CODES:	AG = Amber	Glass; CG	= Clear Gl	ass; Pi	E = Polyethyl	ene; PP =	Polypropyle	ene; S	= Silicone; T	= Teflon;	O = Other (S	pecify)		
SAMPLING	EQUIPMENT		APP = After F RFPP = Reve			B = Bailer; ump; SM	BP = Blad = Straw Meth			Electric Submrain); O = 0	ersible Pump Other (Specif				

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

pH: \pm 0.2 units Temperature: \pm 0.2 °C Specific Conductance \pm 5% Dissolved Oxygen: all readings \leq 20% saturation (see Table FS 2200-2); optionally, \pm 0.2 mg/L or \pm 10% (whichever is greater) Turbidity: all readings \leq 20 NTU; optionally \pm 5 NTU or \pm 10% (whichever is greater)

^{2.} STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

SITE NAME: C	-HS3					SITE				ake	Wales, F	Florida	
WELL NO:		30		SAM	MPLE ID:				DATE:		26/1)	
	<u> </u>	<u> </u>			F	URGI	NG DATA				/1		
WELL	R (inches): 0.75	TUBIN	NG ETER (inches)	: 0.25	WELL S	CREEN IN	TERVAL to 0	STATIC DI		1	GE PUMP BAILER:	TYPE PP	
	LUME PURGE: it if applicable)	1 WELL VO	DLUME = (TC	TAL WELL		- STATIC	DEPTH TO W	ATER) X	WELL CAPACITY	.1			
EQUIPME	NT VOLUME PL	JRGE: 1 EQ	= (L. = PUMF	feet VOLUME	- + (TUBIN	G CAPACITY	feet) X X TU	gallo BING LENGTH) + FLO	ns/foot	= L VOLUME		gallons
(only fill ou	t if applicable)			=	gallons		gallons/fo	oot X 💍 🗢	>26 feet) + 0.	125	gallons	_0.0	B gallons
I .	JMP OR TUBING WELL (feet):	G (O		JMP OR TU N WELL (fe		10	PURGING INITIATED A		PURGING T:5	8	TOTAL VO PURGED (LUME gallons):	
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMF		(CIFCIE)	GEN TURBIDITY (NTUs)	Oi	RP NIT	RATE	NITRITE
	HO	1	2	20	— 6	31-1	6						
	1 7 7 -					T	· T			-			
						_				 			
										 			
										 		+	
WELL CAP	PACITY (Gallons	s Per Foot):	0.75" = 0.02;	1" = 0.0	04; 1.25	i" = 0.06;	2" = 0.16;	3" = 0.37;	4" = 0.65; 5" = 1.0	02: 6	B" = 1.47;	12" = 5.	88
TUBING IN	NSIDE DIA. CAF EQUIPMENT C	PACITY (Gal.		0.0006;		0014; 1/		5/16" = 0.0	04; 3/8" = 0.006;	1/2"	= 0.010;	5/8" = 0.	016
PURGING	EQUIFMENT	ODES.	D - Dallet,	DF - DIAC		<u> </u>	NG DATA		p, FF = Feristanic	- rump	, 0-0	uner (Spe	:City)
SAMPLED	BY (PRINT) / A	FFILIATION:		SAMPLE	R(S) SIGN	NATURE(S):		SAMPLING		SAMPLIN		
M. Mechlin PUMP OR	g, Mechling Eng	ineering		TUBING		9.		FIELD-F	INITIATED AT:		FILTER S		um
DEPTH IN	WELL (feet):			MATERI	AL CODE:			Filtration	Equipment Type:				
	CONTAMINATIO			N		BING '	N (replace	ea)	DUPLICATE:	Y SA	MPLING	SAMDI	E PUMP
SAMPLE	#	MATERIA	VOLUME	PRESER	RVATIVE	TO	TAL VOL	FINAL	ANALYSIS AND/OR METHOD	EQ	UIPMENT CODE	FLOV	V RATE r minute)
30 8-4	CONTAINERS O	H DGE	250 ml	N A	ED	ADDED I	N FIELD (mL)	pH \	CHLORIDE		APP	N37	
	·		104.1						· · · · · · · · · · · · · · · · · · ·			5 AW	PUED
										-			
										+			
REMARKS		.	<u></u>	L		<u> </u>		<u> </u>				L .,	
MATERIAL		AG = Amber		= Clear Gla		= Polyeth	 	Polypropyle		r = Tefl		Other (Sp	ecify)
	The above of		APP = After F RFPP = Reve	rse Flow Pe	eristaltic Pu	• •	M = Straw Meth				Pump; Specify)		

^{2.} STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

SITE NAME: C	S3					SITE						V	Vales, F	Florida	1
WELL NO		30		SAMI	PLE ID:			•			DATE:	- 7	26/1.	<u> </u>	
L					F	URGI	NG E	ATA			.	-1		<u> </u>	
	R (inches): 0.75		ETER (inches)	: 0.25	DEPTH: feet	CREEN IN	t to	0	TO WATE	ER (feet):	0,		GE PUMP AILER:	TYPE PP	
	LUME PURGE: ut if applicable)	1 WELL VO	= (1C	HAL WELL I	feet		CDEPI	HIOW	feet) X	WELL		ns/foot	=		gallons
	NT VOLUME Pout if applicable)	URGE: 1 EC	QUIPMENT'VO)L. = PUMP \ =	VOLUME	+ (TUBIN			X TI	026	reet) + C.	V CELL くころ	VOLUME		
	UMP OR TUBIN I WELL (feet):	G (O		JMP OR TUE NWELL (feet		10	PUR	GING ATED A	T: 7:55	PURC	ED AT: 7:5	8	TOTAL VO PURGED (LUME	
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEM) []	COND. circle units µmhos/cm or µS/cm	OX' (circle mg	OLVED /GEN e units) /L or turation	TURBIDITY (NTUs)	OR	P NIT	TRATE	NITRITE
	No	V	AT	ZQ	- 6	3'-	to	1							
	PACITY (Gallon NSIDE DIA. CAI								3" = 0.37; 5/16" = 0.		65; 5" = 1.0; 68" = 0.006;		' = 1.47; 0.010;	12" = 5 5/8" = 0	
PURGING	EQUIPMENT C	ODES:	B = Bailer;	BP = Bladd					nersible Pu	np; I	PP = Peristaltic	Pump;	0 = C	ther (Sp	ecify)
SAMPLED	BY (PRINT) / A	FFILIATION	:	SAMPLER		AMPL NATURE(S		DAIP	\	SAMP			SAMPLIN		
PUMP OR		gineering	·	TUBING MATERIA	. CODE:	76				FILTERE			FILTER S		μm
	WELL (feet): CONTAMINATIO	ON: PU	MP Y	N N			Y N	l (replac		DUPLI	nent Type: CATE: Y	,	N		
	PLE CONTAINE		ATION			PLE PRE					TENDED (SIS AND/OR		MPLING MPMENT		LE PUMP W RATE
SAMPLE ID CODE	# CONTAINERS	MATERIA L CODE	VOLUME	PRESERV USE		ADDED	TAL VO IN FIEL		FINAL pH	N	ETHOD	C	ODE	(mL p	er minute)
30 8-1	0 1	4068	250 ml	AN						CF	ILORIDE	- '	APP	No	nceo
REMARKS	<u> </u> 						· · · · · · · · · · · · · · · · · · ·								·
	L CODES: G EQUIPMENT		APP = After F		np;	= Polyeti B = Bailer	; В	P = Blad	Polypropyl	ESP =	Electric Subm		Pump;	Other (Sp	pecify)
NOTES: 1	The above of		RFPP = Reve						od (Tubing	· · · · ·	rain); O = 0	Other (S	Specify)	·····	

^{2.} STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

SITE	1100					SITE					10/-1		_	
NAME: C		·· ·		<u> </u>		LOCAT	ION				vvale	es, Florida	<u>a</u>	
WELL NO:	03	0		SAM	MPLE ID:					DATE:				
					P	URGIN	G DATA							
WELL	7 (ib), 0.76	TUBIN		. 0.05		CREEN INTI		STATIC D TO WATE			PURGE PU	_ \	`	
	R (inches): 0.75		ETER (inches)		feet	•					OR BAILEI	R: (PP)	
	LUME PURGE: t if applicable)	1 WELL VO	OLUME = (TO	TAL WELL	DEPTH -	- STATIC I	DEPTH TO W	ATER) X	WELL C	APACITY				
` '	NT VOLUME PI	IDCE: 4 EC	= (N - DUME	feet	- /THENC	CABACITY	feet) X	DINC LE	gallo NGTH) + FLO	ns/foot =	1 IRAE	gallons	
	t if applicable)	URGE. I EQ	OIFMENT VC	= =	gallons	20	gallons/fo		2 . 2	•	. 125 ga		8 _{galions}	
1	JMP OR TUBIN WELL (feet):	G 12		JMP OR TU N WELL (fe		2	PURGING INITIATED A	T: (?: 42	ENDE	EING S:	8 TOTA	L VOLUME ED (gallons)	12.0:	
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP.	COND. (circle units	OXY (circle mg/	OLVED GEN units) Lor uration	TURBIDITY (NTUs)	ORP	NITRATE	NITRITE	
8:09	0.30	0.30	0.04	~	7.60				3.9	Er3	106.1	0	0	
8:13	21.0	0.42	0,04		7.58		<u> </u>			979	116.7	0	0	
3:17	0.12	0.54	400		7.52	24.0	9 96	46.3/	3.87	730	127.4	8	0	
	17 0.12 0.54 0.04 7.52 24.09 96 46.3/3.87 730 127.4 0 0													
ļ	117 0.12 0.54 0.04 1.52 24.08 96 UC.3/3.87 130 127.4 0 0													
<u> </u>							+				_			
	PACITY (Gallon						2" = 0.16;	3" = 0.37;	4" = 0.0	85; 5" = 1.0				
	ISIDE DIA. CAF				3/16" = 0.0		' = 0.0026;	5/16" = 0.0		/8" = 0.006;	1/2" = 0.01			
PURGING	EQUIPMENT C	ODES:	B = Bailer;	BP = Biac	der Pump;		Electric Subr		пр; н	PP = Peristaltic	Pump;	0 = Other (S	pecity)	
SAMPLED	BY (PRINT) / A	FFILIATION:		SAMPLE		ATURE(S);	IO DATA	•	SAMPI	ING A	SAN	APLING 🙇		
M. Mechline	g, Mechling Eng	aineerina	3 5 -		1/	$Q \mathcal{K}$	1		INITIA	ING 8: 2	ENI	DED AT:	:52	
PUMP OR	TUBING	12	*a .	TUBING	AL CODE:				FILTERE	D: Y (N		ER SIZE:	μm	
	WELL (feet): CONTAMINATION	ON: PUI	MP Y	D MAIEK		BING A	N (replac		DUPLI	ent Type: CATE:	((
	PLE CONTAINE			Ī		PLE PRESE			IN	TENDED	SAMPLIN	IG SAMI	PLE PUMP	
SAMPLE	#	MATERIA	VOLUME	PRESER	VATIVE	TOTA	L VOL	FINAL	ANALY	SIS AND/OR	EQUIPME CODE	NT FLC	OW RATE per minute)	
O30	CONTAINERS	HD 36	८८०	US		ADDED IN	FIELD (mL)	pH —		LORIDE	APP		٥4	
0 30		אנטזע	->-	 				- - -			 	10.	<u> </u>	
			,,						<u> </u>					
									 		-			
			<u> </u>											
REMARKS	:		<u> </u>											
MATERIAL	CODES:	AG = Ambei	Glass; CG	= Clear Gla	ass; PE	= Polyethyl	ene; PP =	Polypropyle	ene; S	= Silicone; T	= Teflon;	O = Other (S	pecify)	
SAMPLING	S EQUIPMENT		APP = After F RFPP = Reve			3 = Bailer; mp; SM	BP = Blad = Straw Meth	der Pump; nod (Tubing (Electric Submain); O = 0	ersible Pump Other (Specif			

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

^{2.} STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

SITE NAME: C-	HS3					SITE				1	ake Wale	es, Florida	a		
WELL NO:		30		SAI	MPLE ID:					DATE:	ane waie	23, 1 101106			
				l	F	PURGING	DATA								
	(inches): 0.75		ETER (inches)		WELL S DEPTH: feet	CREEN INTER	RVAL 14	STATIC D TO WATE	R (feet):		PURGE PU OR BAILER	JMP TYPE R: PP)		
	UME PURGE: if applicable)	1 WELL VO	DLUME = (TC = (TAL WELL	. DEPTH feet		EPTH TO W	feet) X		gallo	ns/foot =		gallons		
	IT VOLUME PU if applicable)	JRGE: 1 EQ	UIPMENT VO)L. = PUMF =	VOLUME		6 gallons/fo	X TU		NGTH) + FLOV	W CELL VOL	UME illons = 0. 1			
	MP OR TUBIN WELL (feet):	^G 14	1	JMP OR TU N WELL (fe	JBING 1	P P	URGING	8:26	PURC ENDE	ING 8:3	L TOTA	L VOLUME SED (gallons)	220		
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP.	COND. (circle units µmhos/cm or µS/cin	OXY (circle	OLVED GEN units) L <u>or</u> uration	TURBIDITY (NTUs)	ORP	NITRATE	NITRITE		
8:28	0.19	0.19	8.10	-	7.62		***		4.44		109.3	0	0		
8:31	0.12	0.31	0.06	`	7.65		118			Er 3	115.1	0	0		
8:34	0.12	0.43	0.05		7.61	23.12		50.5	14-57	790	114.9	0	0		
	ACITY (Gallon: SIDE DIA. CAF				04; 1.25 <u>3/16" = 0.0</u>		" = 0.16; = 0.0026;	3" = 0.37; 5/16" = 0.0	4" = 0.0	65; 5" = 1.0 / 8" = 0.006;	2; 6" = 1.4 1/2" = 0.010				
PURGING E	EQUIPMENT C	ODES:	B = Bailer;	BP = Blac	der Pump	; ESP = E AMPLINO		nersible Pun	np; F	P = Peristaltic	Pump; (O = Other (Sp	pecify)		
SAMPLED I	BY (PRINT) / A	FFILIATION:		SAMPLE		ATURE(S):	/,	<u> </u>	SAMPI	ING Q	20 SAN	APLING 0	• .1		
	, Mechling Eng	jineering			M	p /C	1		INITIA	TED AT:	O ENE	DED AT: 4			
PUMP OR T DEPTH IN V		14		TUBING MATERI	AL CODE:	PE			FILTERE n Equipm	D: Y 🚺 lent Type:	FILT	TER SIZE:	μm		
FIELD DEC	ONTAMINATIO	ON: PUI	MP Y	Ø)		BING 🏵	N (replace	ed)	DUPLI	CATE: Y	<u>(</u>				
SAMP SAMPLE	LE CONTAINE	R SPECIFIC		DDECE	SAM RVATIVE	PLE PRESER TOTAL		FINAL		TENDED 'SIS AND/OR	SAMPLIN EQUIPME		LE PUMP W RATE		
ID CODE	CONTAINERS	L CODE	VOLUME	US	ED	ADDED IN F		pН		ETHOD	CODE		er minute)		
30 12-1	4 1	Hare	25-	-					l CH	ILORIDE	APP	0,	১১		
											-				
REMARKS:				1					<u> </u>]				
MATERIAL		AG = Amber		= Clear Gl		≣ = Polyethylei		Polypropyle				O = Other (S	pecify)		
SAMPLING	EQUIPMENT		APP = After P RFPP = Reve			B = Bailer; ump; SM =	BP = Blade Straw Meth	der Pump; od (Tubing (Electric Submrain); O = 0	ersible Pump Other (Specif				

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

pH: \pm 0.2 units Temperature: \pm 0.2 °C Specific Conductance: \pm 5% Dissolved Oxygen: all readings \leq 20% saturation (see Table FS 2200-2); optionally, \pm 0.2 mg/L or \pm 10% (whichever is greater) Turbidity: all readings \leq 20 NTU; optionally \pm 5 NTU or \pm 10% (whichever is greater)

^{2.} STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

SITE	ues					SITE					o la	o Florid	
NAME: C-		0		CAL	MPLE ID:					DATE:		es, Florida	<u> </u>
WELL NO:	0,3	<u> </u>		SAI		UDOIN	O DATA			DATE.	6/26	> 12	
WELL		TUBIN	16			REEN INTE	G DATA	STATIC D	EDTU		PURGE PL	IMD TVDE	
	(inches): 0.75		ETER (inches)	: 0.25		feet to		TO WATE			OR BAILE		
	UME PURGE: if applicable)	1 WELL VO	DLUME = (TC	TAL WELL			EPTH TO W	•	WELL C		ns/foot =		gallana
	IT VOLUME PI if applicable)	URGE: 1 EQ	UIPMENTVO	L. = PUMF =		+ (TUBING	CAPACITY	_		NGTH) + FLO	W CELL VOL		gallons
	MP OR TUBIN WELL (feet):	G 16		IMP OR TU	JBING		PURGING INITIATED A		PURG	ING 8:5		L VOLUME ED (gallons)	
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units	OXY (circle	DLVED GEN units) Lor uration	TURBIDITY (NTUs)	ORP	NITRATE	NITRITE
8:48	0.19	0.19	0.10	-	8.11			57.		<u> </u>		700 TC	
8:52	0.37	0.56	0.09		8.40				13.98		104.8	0	0 %
8>56	0.25	o. Bi	0.08		8.3	2 24.29	2010	47.8/	7.67	E13	107.5	ග	0
:													
							-					, , , , , , , , , , , , , , , , , , , ,	
TUBING IN	ACITY (Galion SIDE DIA. CAI EQUIPMENT C	PACITY (Gal.	0.75" = 0.02; /Ft.): 1/8" = 0	0.0006;	3/16" = 0.0 dder Pump;	ESP =	' = 0.0026; Electric Subr		04; 3	35; 5" = 1.0 /8" = 0.006; PP = Peristaltic	1/2" = 0.01		0.016
							IG DATA	1					
	BY (PRINT) / A , Mechling Eng			SAMPLE	R(S) SIGN	ATURE(S):	N		SAMPL	ING FED AT: 8'	SAN ENE	MPLING SED AT:	\$2:1
PUMP OR		16		TUBING MATERI	AL CODE:	PE			FILTERE n Equipm	D: Y N ent Type.	FILT	ER SIZE: _	μm
FIELD DEC	ONTAMINATIO	ON: PUI	WP Y	Ń	TUE	BING 🐔	N (replace	ed)	DUPLIC	CATE:	Y O		
SAMP SAMPLE	LE CONTAINE		ATION	DDECE	SAMF	PLE PRESE	RVATION	FINAL		TENDED 'SIS AND/OR	SAMPLIN		PLE PUMP OW RATE
ID CODE	CONTAINERS	MATERIA L CODE	VOLUME	US	ED		FIELD (mL)	pH	М	ETHOD	CODE	(mL t	per minute)
30 14-1	6	HOPE	250			•	`		CH	LORIDE	APP	0.	.08
REMARKS:	· · · · · · · · · · · · · · · · · · ·				1					······································			~
MATERIA	CODES	AC - A	· Class: CC	- Clas- C'	200- 70-	- Dobroth	one: DD =	Dolument	no: 6-	- Cilicana: T	- Toffor	0 = 0th (C	nocify)
MATERIAL SAMPLING	EQUIPMENT		APP = After F		ump; E	= Polyethyl	BP = Blad		ESP =	Electric Subm	nersible Pump		респу)
IOTEO: 4			RFPP = Reve	rse Flow P		• *	= Straw Meth			ain); 0 = 0	Other (Specif	y)	

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

pH: \pm 0.2 units Temperature: \pm 0.2 °C Specific Conductance: \pm 5% Dissolved Oxygen: all readings \leq 20% saturation (see Table FS 2200-2); optionally, \pm 0.2 mg/L or \pm 10% (whichever is greater) Turbidity: all readings \leq 20 NTU; optionally \pm 5 NTU or \pm 10% (whichever is greater)

^{2.} STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

SITE NAME: C	H63					SITE						, Florida	•
WELL NO:	630			SAI	MPLE ID:					DATE:	6 26	12	
	<u> </u>	<u> </u>				URGING	ΠΔΤΔ				0 28	-	
WELL DIAMETER	R (inches): 0.75	TUBIN	G ETER (inches)	: 0.25		REEN INTER	RVAL	STATIC DI TO WATEI			PURGE PU OR BAILER		
	UME PURGE: t if applicable)	1 WELL VO)LUME = (TC = (TAL WELL	DEPTH -			TER) X feet) X	WELL C		ns/foot =		gallons
	NT VOLUME PI t if applicable)	URGE: 1 EQ		L. = PUMF	VOLUME +	(TUBING C		X TU		NGTH) + FLOV		7	
	MP OR TUBIN WELL (feet):	e 18		MP OR TU WELL (fe			URGING IITIATED AT:	9:05	ENDE	ING 9: 1	TOTAL PURG	L VOLUME ED (gallons)	1-19
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or (µS/cm	DISSO OXYO (circle mg/L % satu	G EN units) - <u>or</u>	TURBIDITY (NTUs)	ORP	NITRATE	NITRITE
9:07	0.20	0.20	0.10		7.76	-	106	47.5	3.58		123.0	700 T	JEBIF
9:10	0.37	e.57	0.(1		8.35	24.38	100	35.5	7.98	E+3	100.6	3	1
	0.43	0.1	80,0										
TUBING IN	PACITY (Gallon ISIDE DIA. CAI EQUIPMENT C	PACITY (Gal.		0.0006;	04; 1.25" 3/ 16" = 0.00 lder Pump;	14; 1/4" =		" = 0.37; 5/16" = 0.0 rsible Purr	04; 3	65; 5" = 1.0 / 8" = 0.006; PP = Peristaltic	1/2" = 0.010		0.016
						MPLING	DATA	 					
	BY (PRINT) / A g, Mechling Eng			SAMPLE	R(S) SIGN	DES	4		SAMPI INITIA	ING TED AT:	20 SAN	PLING Q	22
PUMP OR DEPTH IN	TUBING WELL (feet):	18			AL CODE:				ILTERE n Equipm	D: Y 🐿 ent Type:		ER SIZE: _	μm
ļ	ONTAMINATIO	· · · · · · · · · · · · · · · · · · ·		N)	TUB		N (replaced)	DUPLI				
SAMPLE ID CODE	PLE CONTAINE # CONTAINERS	MATERIA L CODE	VOLUME		RVATIVE	LE PRESER' TOTAL ADDED IN F	VOL	FINAL pH	ANALY	TENDED 'SIS AND/OR IETHOD	SAMPLIN EQUIPME CODE	NT FLO	PLE PUMP W RATE er minute)
230 6		4DSE	250	1	-	ADDED NAT	ILLD (IIIL)	ρι ·	CH	LORIDE	APP	0.	08
REMARKS	· · · · · · · · · · · · · · · · · · ·												
MATERIAL	. CODES:	AG = Amber	Glass; CG	= Clear Gl	ass; PE	= Polyethyler	ne; PP = P	olypropyle	ne; S	= Silicone; T	= Teflon;	O = Other (S	pecify)
SAMPLING	EQUIPMENT		APP = After P RFPP = Reve	rse Flow Pe		• •	BP = Bladde Straw Method	(Tubing C	Gravity D	Electric Submrain); O = 0	ersible Pump Other (Specify		

pH: \pm 0.2 units Temperature: \pm 0.2 °C Specific Conductance: \pm 5% Dissolved Oxygen: all readings \leq 20% saturation (see Table FS 2200-2); optionally, \pm 0.2 mg/L or \pm 10% (whichever is greater) Turbidity: all readings \leq 20 NTU; optionally \pm 5 NTU or \pm 10% (whichever is greater)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

^{2.} STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

SITE						SITE					347.1	=1	_
NAME: C-	7		 				<u>.</u>					es, Florid	<u>a</u>
WELL NO:	<u>03</u>	<u> </u>		SAM	MPLE ID:			·····		DATE:	9/50	112	
 						PURGING							
WELL DIAMETER	(inches): 0.75	DIAME	G ETER (inches)	: 0.25		CREEN INTEI		STATIC D TO WATE		~	OR BAILE	UMP TYPE R: PP	
	UME PURGE: if applicable)	1 WELL VO	LUME = (TC	TAL WELL	DEPTH		EPTH TO W		WELL C				
	T VOLUME PU	JRGE: 1 EQ	= (UIPMENT VO	L. = PUMP		+ (TUBING C			BING LE	NGTH) + FLO	ns/foot = W CELL VOL してる。ga	\sim	gallons 20 gallons
	MP OR TUBING	3 20		JMP OR TU N WELL (fe	IBING _	_ P	URGING	9120	PURC	SING 9:3	TOTA	L VOLUME GED (gallons	~ 42
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP	COND. (circle units µmhos/cm of µS/cm	DISSO OXY (circle	OLVED GEN units) L <u>or</u> uration	TURBIDITY (NTUs)	ORP	NITRATE	NITRITE
9:29	0.20	0.2	0.20	_	7.71	24.52	124	47.4	1/3-86	F-3	120.1	100 V	2 0182
9:32	0.25	0.45	٥. ((7.91	24.46			2.98	E, 3	110.0	10	, .
9:36	٥, 25	0.70	0.09		7.99	24.39	12"	3 33.0	/2.7	E13	127.8	1.	
	:												
	ACITY (Gallons SIDE DIA. CAF				04; 1.25 3/ 16" = 0.0		" = 0.16; = 0.0026;	3" = 0.37; 5/16" = 0.0	4" = 0.	 65;	2; 6" = 1. 1/2" = 0.01		
	QUIPMENT C		B = Bailer;		der Pump;	ESP = E	ectric Subn	nersible Pun		P = Peristaltic		O = Other (S	
			***************************************	T		AMPLIN(G DATA	1					
	BY (PRINT) / A , Mechling Eng			SAMPLE	R(S) SIGN	IATURE(S):	(h		SAMPI INITIA	LING SED AT:	38 SAI	MPLING C DED AT:	oper
PUMP OR T DEPTH IN V	UBING	20		<u> </u>	AL CODE:	20			FILTERE n Equipm	D: Y N nent Type:	FILT	TER SIZE: _	μm
FIELD DEC	ONTAMINATIO	N: PUM	MP Y C	N	TU	BING (Y)	N (replace	ed)	DUPLE	CATE:	$\stackrel{\longleftarrow}{\longrightarrow}$) 	
	LE CONTAINE		ATION			PLE PRESER				TENDED (SIS AND/OR	SAMPLII		PLE PUMP OW RATE
SAMPLE ID CODE	# CONTAINERS	MATERIA L CODE	VOLUME	PRESER US		TOTAL ADDED IN F		FINAL pH	N	ETHOD	CODE	(mL j	oer minute)
30 18-	२० ।	HO9E	250	_	_				CH	ILORIDE	APP	<u> </u>	.०१
											-		
REMARKS:				<u></u>									1
MATERIAL		AG = Amber		= Clear Gla		= Polyethyler		Polypropyle			= Teflon;	O = Other (S	ipecify)
SAMPLING	EQUIPMENT (APP = After P RFPP = Reve			B = Bailer; ımp; SM =	BP = Blade Straw Meth	od (Tubing (Electric Submrain); O = 0	Other (Specif		·

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

^{2.} STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

SITE NAME: C	-HS3					SITE					ake Wale	es. Flori	da
WELL NO		0		SAI	MPLE ID:					DATE:	6/26	7	
L					Р	URGING	DATA		***************************************		-1-	 	
	R (inches): 0.75		ETER (inches)		DEPTH:	REEN INTER	22	STATIC DI TO WATE	R (feet):		PURGE PI OR BAILE	JMP TYPE R: PP	_
(only fill o	LUME PURGE: ut if applicable)		= (feet			feet) X		gallo	ns/foot =		gallons
	NT VOLUME Pout if applicable)	URGE: 1 EQ	UIPMENT VO	L. = PUMF =		+ (TUBING C. + (ひ.ひ)	_	_		NGTH) + FLO\ feet) + O.	_	$ar{C}$). Z l gallons
	UMP OR TUBIN WELL (feet):	^G Z2		IMP OR TU WELL (fe			URGING IITIATED AT			ING 9:5	TOTAL PURC	L VOLUME SED (gallor	s)(.02
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (^O C)	COND. (circle units) µmhos/cm or µS/cm) (circle mg/l % satu	GEN units) - <u>or</u>	TURBIDITY (NTUs)	ORP	NITRATE	NITRITE
7:48	0.21	0.21	0.31	_	7.34	24.69	253	29.1	2.18	831	108.4	= 10	0
9:52	0.38	0.59	0.12	<u> </u>	7.22	24.67	232		1.48	493	-	2 10	_
9:57	10.31	J.96	0.10		7.21	24.58	224	17.1	1.42	400	141.5	2 10	0
							,		·				
ļ								-					
	 NPACITY (Gallon NSIDE DIA. CA				04; 1.25" 3/16" = 0.00			j 3" = 0.37; 5/16" = 0.0		 	 2;		= 5.88 = 0.016
· · · · · · · · · · · · · · · · · · ·	EQUIPMENT (B = Bailer;		der Pump;		lectric Subm	·····		P = Peristaltic		O = Other	
C0445) E	DV (DDMT) (EEU IATION		LOAMBLE		MPLIN(DATA		·		· · · · · · ·	 	
	D BY (PRINT) / A			SAMPLE	R(S) SIGN	ATURE(S);	U		SAMPL	LING TED AT: (🗢	SAI ENI	MPLING DED AT:	0:03
PUMP OF	TUBING WELL (feet):	2:	2_	TUBING MATERI	AL CODE:	PE			FILTERE	D: Y N ent Type:) FILT	TER SIZE:	μm
FIELD DE	CONTAMINATION	ON: PUI	MP Y ((N	TUB	ING (Y)	N (replace	d)	DUPLI	CATE:)	
L	IPLE CONTAINE		ATION			LE PRESER				TENDED 'SIS AND/OR	SAMPLII		MPLE PUMP LOW RATE
SAMPLE ID CODE	# CONTAINERS	MATERIA L CODE	VOLUME	ŲS	RVATIVE SED	TOTAL ADDED IN F		FINAL pH	M	ETHOD	CODE	(m	per minute)
30.20	22' \	HOSE	zso m						СН	ILORIDE	APP	- -	10
REMARK	 					, <u>.</u>			<u> </u>				
MATERIA	L CODES:	AG = Amber	Glass; CG	= Clear Gi	ass; PE	= Polyethyler	ne; PP =	Polypropyle	ene; S	= Silicone; T	= Teflon;	O = Other	(Specify)
SAMPLIN	G EQUIPMENT		APP = After P RFPP = Reve	rse Flow P	eristaltic Pur	s = Bailer; mp; SM =	BP = Bladd Straw Metho	od (Tubing (Gravity Di	Electric Submain); O =	ersible Pump Other (Specif		

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

^{2.} STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

WELL NO: WELL DIAMETER (inches): 0.75 WELL VOLUME PURGE: 1 (only fill out if applicable) EQUIPMENT VOLUME PURG (only fill out if applicable)	WELL VOL	ER (inches):		WELL SO		G DATA			DATE:	ake Wal	es, Florida	<u>a</u>
WELL DIAMETER (inches): 0.75 WELL VOLUME PURGE: 1 (only fill out if applicable) EQUIPMENT VOLUME PURGE	TUBING DIAMET WELL VOL	ER (inches):		P WELL SO					DATE:		· .	
DIAMETER (inches): 0.75 WELL VOLUME PURGE: 1 (only fill out if applicable) EQUIPMENT VOLUME PURG	DIAMET	ER (inches):	0.25	WELL SO								
DIAMETER (inches): 0.75 WELL VOLUME PURGE: 1 (only fill out if applicable) EQUIPMENT VOLUME PURG	DIAMET	ER (inches):	0.25		REEN INTE							
(only fill out if applicable) EQUIPMENT VOLUME PURG		UME = (TOT		DEPTH:	22 feet to		STATIC DI TO WATEI		_	PURGE P OR BAILE	UMP TYPE R: PP)
		(AL WELL		- STATIC D	EPTH TO W	ATER) X	WELL C				
	F. 1 FOIL	= (= PUMP	feet -	- + (TURING (CAPACITY	feet) X X TU	RINGIF	gallo NGTH) + FLO\	ns/foot =	IIME -	gallons
(Orny in out it applicable)			=	gallone	ری.ح	galions/fo	ot X 3	4	feet) + O.	125 g	allons =	gallons
INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	24	FINAL PUN DEPTH IN	MP OR TU	BING 2'1	4	PURGING NITIATED AT			DAT: (O	22 TOTA	AL VOLUME GED (gallons)	0.77
TIME VOLUME PURGED (gallons)	CUMUL. /OLUME /URGED gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP.	COND. (circle units µmhos/cm or µS/cm	(circle	GEN units) . <u>or</u>	TURBIDITY (NTUs)	ORP	NITRATE	NITRITE
		6.21		7.22	25.3		31.7/	2.43	Ev 3	157.6	60	0
	-46	2.09		<u>7.33</u>	25.12	296	6.7	0.55	665	118.6	60	.0
10:20 0.25 0		0.67	•	7.30	25.13	295	6.41	8.52	768	139.6	30	O
					-	<u> </u>						<u> </u>
						<u> </u>						
												
WELL CAPACITY (Gallons P	er Foot): 0.	. 75" = 0.02;	1" = 0.0	4; 1.25 [']	" = 0.06; ;	2" = 0.16;	3" = 0.37;	4" = 0.0	 35; 5" = 1.0	2; 6 " = 1	47; 12" = :	5.88
TUBING INSIDE DIA. CAPAC PURGING EQUIPMENT COD				//16" = 0.0 der Pump;		= 0.0026; Electric Subn	5/16" = 0.0		/8" = 0.006; PP = Peristaltic	1/2" = 0.01	0; 5/8" = 0	
TONGING EQUI MENT GOD	<u> </u>	- Daller,	DI - DIQU			G DATA		р, г	r - renstanc	rump,	0 - Other (5)	Jecny)
SAMPLED BY (PRINT) / AFFI	LIATION:	T	SAMPLE		ATURE(S):	<u> </u>	<u> </u>	SAMPI	ING .	- SA	MPLING ,	
M. Mechling, Mechling Engine	ering			M) //U			INITIA	TED AT(0;	2 3 EN	DED AT:	2:57
PUMP OR TUBING DEPTH IN WELL (feet):	4		TUBING	L CODE:	•			ILTERE	D: Y N ent Type:	FIL	TER SIZE: _	μm
FIELD DECONTAMINATION:	PUMF	> Y (N			BING (Y)	N (replace		DUPLI	·····	(N)		
SAMPLE CONTAINER S	PECIFICAT	_	7	SAME	PLE PRESE	RVATION			TENDED	SAMPLI	NG SAME	PLE PUMP
	ATERIA CODE	VOLUME	PRESER USE		TOTAI		FINAL pH		'SIS AND/OR ETHOD	EQUIPM CODE		OW RATE per minute)
	1086	250	031		ADDED IN	TELD (HIL)	pri .	СН	LORIDE	APP		.07
					····							
REMARKS:]				<u>. </u>	<u> </u>	
MATERIAL CODES: AG	= Amber G	Glass; CG =	Clear Gla	ss; PE	= Polyethyle	ene; PP =	Polypropyle	ne; S =	= Silicone; T	= Teflon;	O = Other (S	pecify)
SAMPLING EQUIPMENT CO	RF	PP = After Pe FPP = Revers	e Flow Pe	ristaltic Pu	· · · · · · · · · · · · · · · · · · ·	BP = Blado = Straw Meth	od (Tubing G	ravity Dr	Electric Submain); O = 0	ersible Pum Other (Speci		

^{2.} STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

SITE NAME: C-	ПСЗ					SITE				d 1	ake Wale	e Elorid	3
WELL NO:		<u>3</u> 0		SAI	MPLE ID:					DATE:	/ S/	T.	
WELL NO.	0.	> C		J SAI		PURGIN	CDATA			DATE.	-126	12	
WELL		TUBIN	IG.			CREEN INTE		STATIC D	EPTH		PURGE PL	JMP TYPE	
DIAMETER	(inches): 0.75	DIAM	ETER (inches)		DEPTH: feet	32 feet to	34	TO WATE	R (feet):		OR BAILER		
	UME PURGE: if applicable)	1 WELL VO	= (TC	TAL WELL	DEPTH feet		EPTH TO W	(ATER) X	WELL C		ns/foot =		gallons
	IT VOLUME PO if applicable)	URGE: 1 EQ	UIPMENT VO	L. = PUMF	VOLUME	+ (TUBING	CAPACITY gallons/fo	X TU		NGTH) + FLO			علا gallons
1	MP OR TUBIN	^G 34		JMP OR TU	IBING •	.	PURGING INITIATED A	,	DURC	ING LA :		L VOLUME SED (gallons)	
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (stendard units)	TEMP	COND. (circle units umhos/cm or µS/cm	DISSO OXY (circle	OLVED GEN units) L or uretion	TURBIDITY (NTUs)	ORP	NITRATE	NITRITE
10:36	6.24	6.24	0.24		7.17	25.15		22.9	182	Er3	95.4	20	8
10:39	0.25	0.49	0.12	~	6.68	24.98			6.44	6.3	97.4	40	0
10:43	0.25	0.74	0.09		6.50	25.00	309	5 4.6	/o.3 2	· 6-3	110.5	20	0
		<u> </u>					ļ						
WELL CAP	ACITY (Gallon	s Per Foot):	0.75" = 0.02:	1" = 0.0	04: 1.25	5" = 0.06;	2" = 0.16;	3 " = 0.37;	4" = 0.6	55: 5" = 1.0	2; 6" = 1.4	47: 12" =	5.88
	SIDE DIA. CAF		·········		3/16" = 0.0	0014; 1/4"	= 0.0026;	5/16" = 0.0		/8" = 0.006;	1/2" = 0.010		
PURGING	EQUIPMENT C	ODES:	3 = Bailer;	BP = Blac	lder Pump	AMPLIN	G DATA		np; P	P = Peristaltic	Pump; (O = Other (S	ресіту)
	BY (PRINT) / A			SAMPLE		H)TURE(S):	<u> </u>		SAMPL	ING TED AT: (O	SAN END	MPLING DED AT:	0:47
PUMP OR		34		TUBING		PE			FILTERE	D: Y (N)		ER SIZE: _	μm
	WELL (feet): ONTAMINATION		MP Y	_	AL CODE:	BING (Y	N (replac		n Equipm				
	LE CONTAINE			<u>N) </u>		PLE PRESE			ļ	TENDED	SAMPLIN	IG SABA	PLE PUMP
SAMPLE	#	MATERIA	VOLUME	PRESER	RVATIVE	TOTA	L VOL	FINAL	ANALY	SIS AND/OR	EQUIPME	NT FLC	W RATE
ID CODE	CONTAINERS	L CODE	253		ED	ADDED IN		рH	<u> </u>	LORIDE	CODE		per minute)
30 32-	1 78	HOPE	<u> </u>	 ``							 	10.	. • 1
					11 1								
	:												
REMARKS:													
MATERIAL		AG = Amber	Glass; CG	= Clear Gla		E = Polyethyle		Polypropyle				O = Other (S	pecify)
SAMPLING	EQUIPMENT		APP = After P RFPP = Reve	rse Flow Pe	eristaltic Pu	• •	= Straw Meth	•	Gravity Dr	Electric Submain); O = 6	ersible Pump Other (Specif		

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

^{2.} STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

SITE						SITE							
NAME: C-				T		į į					/ 15 /	Florida	3
WELL NO:	03	0		SA	MPLE ID:					DATE:	6126	12	
	 		· · · · · · · · · · · · · · · · · · ·			PURGING					,		
WELL DIAMETER	(inches): 0.75	TUBIN	IG ETER (inches)): 0.25		CREEN INTE		STATIC DI TO WATE			OR BAILER	JMP TYPE R: PP	
	UME PURGE: if applicable)	1 WELL VO	DLUME = (TC	TAL WELI	LDEPTH		EPTH TO W		WELL C		· ·		
	T VOLUME Po	URGE: 1 EQ	UIPMENT VO	L. = PUMI	feet PVOLUME	+ (TUBING C	APACITY	feet) X X TU	BING LE	NGTH) + FLOV		· ().	gallons 27
INITIAL PUI	MP OR TUBIN	GAS J	PINAL PL	= JMP OR TI	UBING 🔑	+(0.662		۲:۲۵:۲ <i>ه</i>	PURG	ING 11.	9 TOTA	LVOLUME	gallons
DEPTH IN \	NELL (feet):	CUMUL.	DEPTHI	N WELL (fe	7	,, , , , , , , , , , , , , , , , , , ,	COND.	Disso		DAT: V	PURG	SED (gallons)	: ,
TIME	VOLUME PURGED (gallons)	VOLUME PURGED (gallons)	PURGE RATE (gpm)	TO WATER (feet)	pH (standard units)	TEMP. (°C)	(circle units μmhos/cm or μS/cm	(circle	units) or	TURBIDITY (NTUs)	ORP	NITRATE	NITRITE
10:58	0.27	0.27	6.27		7.30	22.51	419	3.3/	0.26	E+3	-392.2		6.5
11:03	0.25	0.52	6.07		7.15	25.40	411	30/0	25.0	881	-73.1	08	1.0
11:08	0.37	0.89	0.07		C 80	25.27	405	3.2/	٠. 26	980	-18.5	40	0.5
· · · · · · · · · · · · · · · · · · ·						-	ļ						
 													
					 								
	ACITY (Gallon SIDE DIA. CAI				04; 1.25 3/16" = 0.0		" = 0.16; = 0.0026;	3" = 0.37; 5/16" = 0.0	4" = 0.6 04; 3/	65; 5" = 1.0	2; 6" = 1.4 1/2" = 0.010		
PURGING E	QUIPMENT C	ODES: I	B = Bailer;	BP = Blad	dder Pump;			nersible Pum	p; P	P = Peristaltic	Pump;	O = Other (Sp	pecify)
SAMPLED I	BY (PRINT) / A	FFILIATION:		SAMPLE		AMPLING IATURE(S):	G DATA	<u> </u>	T				
	, Mechling Eng				11	e //	1		SAMPL INITIAT	ING ED AT:		MPLING DED AT:	1:15
PUMP OR T	UBING	44	 	TUBING	i cons	PE			ILTERE		FILT	ER SIZE:	μm
FIELD DEC	ONTAMINATION		MP Y	MATERI	IAL CODE: TU	BING (Y)	N (replace		DUPLIC	ent Type: CATE: Y		,	
SAMP	LE CONTAINE	R SPECIFIC	ATION		SAM	PLE PRESER	VATION			rended	SAMPLIN	IG SAMF	PLE PUMP
SAMPLE ID CODE	# CONTAINERS	MATERIA L CODE	VOLUME		RVATIVE SED	TOTAL ADDED IN F		FINAL pH		SIS AND/OR ETHOD	EQUIPME CODE	NT FLO	W RATE per minute)
0 42-4		HORE	250	-		AUDEU IN	ILLD (IIIL)	- P11	СН	LORIDE	APP		
			<u> </u>						·				
ļ			· · · · · · · · · · · · · · · · · · ·								ļ		
DEMARKS				<u></u>					<u>.</u>]		
REMARKS:													
MATERIAL	CODES:	AG = Amber	Glass; CG	= Clear Gi	ass; PE	= Polyethyle	ne; PP =	Polypropyle	ne; S=	Silicone; T	= Teflon;	O = Other (S	pecify)
	EQUIPMENT	CODES:	APP = After F RFPP = Reve	Peristaltic P	ump;	B = Bailer;	BP = Blad		ESP =	Electric Subm);	

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

pH: \pm 0.2 units Temperature: \pm 0.2 °C Specific Conductance: \pm 5% Dissolved Oxygen: all readings \leq 20% saturation (see Table FS 2200-2); optionally, \pm 0.2 mg/L or \pm 10% (whichever is greater) Turbidity: all readings \leq 20 NTU; optionally \pm 5 NTU or \pm 10% (whichever is greater)

^{2.} STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

SITE NAME: C-	HC2					SITE							
WELL NO:	03	0		T							<i>Z</i> 1	12	
WEEE NO.	<u> </u>	<u> </u>			D	URGINO	ATAC 2						
WELL		TUBIN	IG			REEN INTE		STATIC D	EPTH		PURGE PL	MP TYPE	
	(inches): 0.75		ETER (inches	· 	feet	52 feet to	- 1	TO WATE			OR BAILER	R: PP	
	UME PURGE: if applicable)	1 WELL VO	DLUME = (TC	TAL WELL			EPTH TO W		WELL C		15 1		0
	IT VOLUME PU	JRGE: 1 EQ	UIPMENT VO	L. = PUMF		+ (TUBING C	•			NGTH) + FLO	ns/foot = W CELL VOL	UME	gallons • 9
		C # .1	EINAL DI	= JMP OR TU		90.0)+				feet) +	<u>_</u>	lions =	gallons
DEPTH IN \	MP OR TUBIN WELL (feet):	354		WELL (fe	et): 5	4	URGING NITIATED A	r: 11:24		DAT: U: 3	7 PURG	ED (gailons)	: 60
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units umhos/cm or µS/cm	OXY (circle	GEN units) . <u>or</u>	TURBIDITY (NTUs)	ORP	NITRATE	NITRITE
11:26	0.29	0.29	0-15	_		28.97	375		14.0	1045	-222.3	80	15
11:32	0.25	0.54	0.07	•		25.90			>.25		-178.0		1.0
11:35	0.37	0.91	00		6.74	25.74	35	2.1/0	.17	Er3	-118.4	60	1.0
	. •							- '					
								-				····	
	· · · · · · · · · · · · · · · · · · ·												
													·
	ACITY (Gallon SIDE DIA. CAF				04; 1.25° 3/16" = 0.0		" = 0.16; = 0.0026;	3" = 0.37; 5/16" = 0.0	4" = 0.6	35; 5" = 1.0 / 8" = 0.006;	2; 6" = 1.4 1/2" = 0.010		
PURGING E	QUIPMENT C	ODES: I	B = Bailer;	BP = Blac	ider Pump;			nersible Pun	ip; F	P = Peristaltic	Pump; (O = Other (S	pecify)
SAMPLED I	BY (PRINT) / A	FFILIATION:		SAMPLE		AMPLING ATURE(S):	G DATA	1	CAMO	INC 4 L	00 544	ADI INC	
M. Mechling	, Mechling Eng	ineering				\mathcal{Q}^{-}	VU .		SAMPL	FED AT:		MPLING DED AT:	1:41
PUMP OR T	UBING	54		TUBING	AL CODE:	PR	1			D: Y N ent Type:	FILT	ER SIZE: _	μm
	ONTAMINATIO	ON: PUI	VIP Y	N)		BING Y	N (replace		DUPLI)	
SAMP	LE CONTAINE	R SPECIFIC	ATION		SAME	PLE PRESER	VATION			TENDED	SAMPLIN		PLE PUMP
SAMPLE ID CODE	# CONTAINERS	MATERIA L CODE	VOLUME		RVATIVE ED	TOTAL ADDED IN F		FINAL pH		'SIS AND/OR ETHOD	EQUIPME CODE		W RATE per minute)
30 <2-		HDDE	250	†	_			-	СН	LORIDE	APP	٥.	90
											<u> </u>		
				<u> </u>									
				-				.,					
REMARKS:		L		L					L		1		
2													
MATERIAL		AG = Amber		= Clear Gl		= Polyethyle		Polypropyle		<u>-</u>		O = Other (S	pecify)
SAMPLING	EQUIPMENT		APP = After F RFPP = Reve			• •		der Pump; od (Tubing C	Gravity Di	Electric Submain); O = 0	ersible Pump Other (Specify		

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

^{2.} STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

SITE						SITE						. Florida	
NAME: C-		30			IDI 5 ID					DATE	(/ 2 /	es, Florida	<u> </u>
WELL NO:	0	30		SAM	IPLE ID:					DATE:	6/26	112	
		T == 1,014				URGING		,			DUDGE D	ILED TUDE	
WELL DIAMETER	(inches): 0.75	DIAME	ETER (inches)	: 0.25		CREEN INTER		STATIC D TO WATE			PURGE PU OR BAILER		
	UME PURGE: if applicable)	1 WELL VO	DLUME = (TO	TAL WELL			PTH TO W		WELL C		ns/foot =		gollons
	T VOLUME Pt if applicable)	JRGE: 1 EQ	UIPMENT VO	L. = PUMP	feet - VOLUME		APACITY	7.1		NGTH) + FLOV	W CELL VOL	Λ	gallons 3 2
INITIAL PUI DEPTH IN V	MP OR TUBIN	G 64		= IMP OR TUI I WELL (fee		⊥ P	gallons/fo URGING NITIATED A	11.00	PURG	SING DAT:	ga Z S ga	L VOLUME ED (gallons)	gallons
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP	COND. (circle units umbos/cm	DISSO OXY (circle	EVED GEN units) L <u>or</u>	TURBIDITY (NTUs)	ORP	NITRATE	NITRITE
11:56	0.32	0.72	0-32	~	6.90	26.52		21.4	1/1.66	Ev3	82.9	100	1.0
12:00	0.25	0.57	0.11		652	26.25		3.9	6.31	850	168.2	80	1.0
1203	6.25	0.82	0-19		608				0.28	320	206.3	80	1.0
													
													· · · · · · · · · · · · · · · · · · ·
10/5/1 045	A CITY (Called	D E A)	0.75" - 0.00	4" - 00	4. 4.05	1 - 0.00: 0	" = 0.16;	011 = 0.07	47 - 0	65; 5" = 1.0	2; 6" = 1.4	17. 40" -	
	ACITY (Gallon SIDE DIA. CAF				/16" = 0.0		= 0.16,	3" = 0.37; 5/16" = 0.0	4" = 0.0	/8" = 0.006;	1/2" = 0.010		
PURGING E	QUIPMENT C	ODES: I	3 = Bailer;	BP = Blade	<u>-</u>			nersible Pun	ıp; F	P = Peristaltic	Pump; (O = Other (Sp	pecify)
SAMPLED E	BY (PRINT) / A	FFILIATION:		SAMPLE		AMPLING ATURE(S):	J DATA	<u> </u>	T		1		
	, Mechling Eng			:		$\mathcal{Q} \cap \mathcal{V}$	N		SAMPL	ED AT: 12	O7 SAN	MPLING DED AT:	10:3
PUMP OR T	UBING	64		TUBING MATERIA	LCODE	PE			FILTERE		FILT	ER SIZE:	μm
DEPTH IN V	VELL (reet): ONTAMINATIO		MP Y (MATERIA		BING Y	N (replace		DUPLI	ent Type: CATE: Y			
	LE CONTAINE					PLE PRESER	· · · · · · · · · · · · · · · · · · ·			TENDED	SAMPLIN	IG SAME	PLE PUMP
SAMPLE	#	MATERIA	VOLUME	PRESER	VATIVE	TOTAL	VOL	FINAL	ANALY	SIS AND/OR	EQUIPME	NT FLO	W RATE er minute)
D CODE	CONTAINERS	L CODE		USE	D	ADDED IN F		pH		LORIDE	APP	O.	
0.02	• • • • • • • • • • • • • • • • • • • •	CANTO	210									<u> </u>	10
						•							
	<u> </u>												
REMARKS:											,		
MATERIAL	CODES:	AG = Amber	Glass; CG	= Clear Gla	ss; PE	= Polyethyle	ne; PP =	Polypropyle	ne; S	= Silicone; T	= Teflon;	O = Other (S	pecify)
SAMPLING	EQUIPMENT		APP = After P RFPP = Reve	se Flow Pe	ristaltic Pu	• •		od (Tubing (Gravity Dr	Electric Submain); O = 0	ersible Pump Other (Specify		

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

^{2.} STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

SITE						SITE								
NAME: C-							ļ				, ,			
WELL NO:	63	<u> </u>	, ,	SAI	MPLE ID:			····		DATE:	6/1	26	12	
r						URGING					l =/====			
DIAMETER	(inches): 0.75	DIAMI	IG ETER (inches)	: 0.25		REEN INTER		STATIC DI TO WATE			PURGE OR BAIL		PP	
	UME PURGE: if applicable)	1 WELL VO)LUME = (TO = (TAL WELL	DEPTH -		PTH TO W	ATER) X feet) X	WELL C		ns/foot =			galions
	T VOLUME PU if applicable)	JRGE: 1 EQ		L. = PUMF		(TUBING C	APACITY 26 gallons/fo	X TU	BING LE	NGTH) + FLO	W CELL VO		o. 3	
INITIAL PUN DEPTH IN V	MP OR TUBINO	³ 74	FINAL PU DEPTH IN	MP OR TU	JBING -	11 P	URGING IITIATED A	1.2.15	PURG		TOT	AL VOL	UME	
TIME	VOLUME PURGED (gallons)	CUMUL, VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units	(circle	GEN units) L <u>or</u>	TURBIDITY (NTUs)	ORP		ATE	NITRITE
13:00	0.34	6.34	0.17		6.94	28.13	714	9.9/0	.77	E+3	- 45.		6	0.7
13:09	0.38	0.59	0.08		5.98	27.31	. ३०।	5.7/0	0.45	300	114.0	3 3	0	0.5
														
MELL CAD	ACITY (Gallons	Dor Footh	0.75% = 0.00;	4" - 0	04: 4 35"	7 - 0.06: 3	" = 0.16;	3" = 0.37:	4" = 0.0	35; 5" = 1.0	2: 6" =	1.47:	12" = 5	00
	SIDE DIA. CAP							5/16" = 0.0		/8" = 0.006;	1/2" = 0.0		5/8" = 0	
PURGING E	QUIPMENT C	ODES: I	B = Bailer;	BP = Blac	der Pump;			nersible Pun	np; F	P = Peristaltic	Pump;	0 = Ot	her (Sp	ecify)
SAMPLED E	BY (PRINT) / A	EEU IATION:		SAMDI F	R(S)/SIGN	MPLIN	G DATA	<u> </u>	1					
	, ,			OAWII EE			1		SAMPI	ING FED AT:		AMPLIN NDED A		
PUMP OR T	, Mechling Eng UBING	ineenng		TUBING		D.A.			I FILTERE) FI	LTER SI	ZE:	μm
DEPTH IN V		14		<u></u>	AL CODE:	PR			T	ent Type:	, 	ξ		
	ONTAMINATIO			<u> </u>		ING Y	N (replac	ea)	DUPLI	·	/ <u>(N</u>	т		
SAMPLE	LE CONTAINE #	R SPECIFIC MATERIA		DDECE	SAMP RVATIVE	LE PRESER TOTAL		FINAL		TENDED 'SIS AND/OR	SAMPL EQUIPN	ING		LE PUMP W RATE
	CONTAINERS	L CODE	VOLUME	US	ED	ADDED IN F		pH	M	ETHOD	COL	E	(mL pe	er minute)
\$0 -72-74		(406€	250		14				СН	ILORIDE	API	P	٥.	08
									-					
-									 					
									 					
					+				 					
REMARKS:				<u> </u>					L	V	1.			
MATERIAL	CODES:	AG = Ambei	Glass; CG	= Clear Gi	ass; PE	= Polyethyle	ne; PP =	Polypropyle	ene; S	= Silicone; T	= Teflon;	0=0	ther (Sp	ecify)
SAMPLING	EQUIPMENT (APP = After P RFPP = Reve	se Flow P	eristaltic Pur	• •		od (Tubing (Gravity Di	Electric Submain); O = 0	ersible Pur Other (Spec			

pH: \pm 0.2 units Temperature: \pm 0.2 °C Specific Conductance: \pm 5% Dissolved Oxygen: all readings \leq 20% saturation (see Table FS 2200-2); optionally, \pm 0.2 mg/L or \pm 10% (whichever is greater) Turbidity: all readings \leq 20 NTU; optionally \pm 5 NTU or \pm 10% (whichever is greater)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

^{2.} STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

SITE NAME: C	H63					SITE	TION.							
WELL NO:			• , •	SAI	MPLE ID:	LOCA	HON.			DATE:	15	1 10		
WELL NO.	031			ام		HIDČIN	CDATA			DATE.	6/2	6/12		
WELL		TUBI	NG.			CREEN INT	IG DATA	STATIC D	FPTH		PURGE	E PUMP T	YPF	
	R (inches): 0.75		ETER (inches)	: 0.25	DEPTH:	[• feet t		TO WATE			OR BA		PP	
WELL VOL	UME PURGE:	1 WELL V	DLUME = (TC	TAL WELL	feet DEPTH	- STATIC	DEPTH TO W	ATER) X	WELL C	PACITY	L			
	t if applicable)		= (feet	_		feet) X		gallo	ns/foot =	=		gallons
	NT VOLUME P	URGE: 1 EC	UIPMENT	L. = PUMF	VOLUME	+ (TUBING	CAPACITY		•	IGTH) + FLO			ا,ق	7
(6/11) 1111 001				=		ن. و. و.	gallons/fo			feet) + O.			=	gallons
	MP OR TUBIN WELL (feet):	G 12		IMP OR TU NWELL (fe		12	PURGING INITIATED A			NG DAT: (43 PU	OTAL VOL JRGED (g	.UME (allons):	
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP.	COND. (circle units µmhos/cm or µS/cm	OXY (circle	DLVED GEN units) Lor uration	TURBIDITY (NTUs)	ORP	NITI	RATE	NITRITE
	. 1	_					-	76 Sati	Irauon				-	
•	~~~	<u> </u>	VV #	115	K ?	10	12	•			<u> </u>			
							_							
							-							
	ACITY (Gallon							3" = 0.37;		5; 5" = 1.0			12" = 5.8	
	ISIDE DIA. CAI EQUIPMENT C		./Ft.): 1/8" = (B = Bailer;		3/16" = 0.0 ider Pump	0014; 1/4 : ESP =	" = 0.0026; = Electric Subr	5/16" = 0.0 nersible Pun		3" = 0.006; P = Peristaltic	1/2" = 0		5/8" = 0.0 ther (Spe	
						·	IG DATA		, , , , , , , , , , , , , , , , , , ,	7 0110101010	. ump,	• •	nor (ope	Oiry)
	BY (PRINT) / A			SAMPLE	R(S) SIGI	NATURE(S):			SAMPL			SAMPLING		,
PUMP OR	g, Mechling Eng TUBING	gineering		TUBING	·			FIELD-	FILTERED		i_	ILTER SI		μm
	WELL (feet):				AL CODE:			• • • • • • • • • • • • • • • • • • • •	n Equipme					
ļ	ONTAMINATION PLE CONTAINE			N		BING Y	(ea) 	DUPLIC		1	N N		
SAMPLE ID CODE	# CONTAINERS	MATERIA L CODE	VOLUME		RVATIVE ED	TOTA	L VOL FIELD (mL)	FINAL pH	ANALY	ENDED SIS AND/OR ETHOD	EQUIP	PLING PMENT DDE	FLOW	.E PUMP V RATE r minute)
ID CODE	CONTAINENS	LOODE		03	ED	ADDED IN	FIELD (IIIL)	рп	СНІ	ORIDE	AF	PP	<u> </u>	
					,									
DEMARKS											<u> </u>			
REMARKS:	•													
MATERIAL	CODES:	AG = Amber	r Glass; CG	= Clear Gla	ass; Pl	E = Polyethy	lene; PP =	Polypropyle	ne; S=	Silicone; T	= Teflon;	0 = 0	ther (Spe	acify)
	EQUIPMENT	CODES:	APP = After P	eristaltic P	ump:	B = Bailer:	BP = Blade = Straw Meth	der Pump;	ESP =	Electric Subm	<u>_</u>	ımp;		
NOTES: 4	The shove								. 		,			

^{2.} STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

SITE						SITE									
NAME: C	-HS3	-				LOCATIO	ON				, , , , ,				
WELL NO	$\underline{}$	SA		SA	MPLE ID:					DATE:	6/2	6/12			
					P	URGING									
ļ	R (inches): 0.75		TER (inches		DEPTH:	REEN INTER	14	STATIC D TO WATE	R (feet):	_	PURGE F OR BAILE	PUMP TYPE R: PP			
(only fill or	LUME PURGE: it if applicable)		= (feet			feet) X		gallo	ns/foot =		galions		
	NT VOLUME Pout if applicable)	URGE: 1 EQ	UIPMENT VO	DL. = PUMF =	VOLUME 4	(TUBING C	APACITY 2 Gallons/foo	X TU		NGTH) + FLOV feet) + O		^	gallons		
	JMP OR TUBIN WELL (feet):	4 J		JMP OR TU N WELL (fe			URGING IITIATED AT:		ENDE	SING ED AT:		AL VOLUME GED (gallons):		
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	OXY (circle	OLVED GEN units) Log uration	TURBIDITY (NTUs)	ORP	NITRATE	NITRITE		
16:48	5 0-19	0.19	0.19	*	6.75	22.73	(20	39.2	<u>/2.9°</u>	16,3	67.1	. 5	. 0		
1135	0.25	44-0	6.07	•	4.58	22.92		23.1	4.27	1100	74.8	5	0		
16:5-	0.25	0.69	0.67	•	6.47	22.83	103	61.2	5259	500	83.1	5	0		
	<u> </u>														
							·								
	PACITY (Gallon NSIDE DIA. CAI				04; 1.25 " 3/16" = 0.00			" = 0.37; 5/16" = 0.0		65; 5" = 1.0 /8" = 0.006;	2; 6" = 1 1/2" = 0.0				
PURGING	EQUIPMENT C	ODES: I	3 = Bailer;	BP = Blac	dder Pump;		lectric Subme	ersible Pun	ıp; F	P = Peristaltic	Pump;	O = Other (S	pecify)		
parent						MPLIN	G DATA								
SAMPLED	BY (PRINT) / A	AFFILIATION:		SAMPLE	ER(S) SIGNA	V/URE(S):	11		SAMPI			MPLING			
M. Mechlin	g, Mechling Eng	gineering	· · · · · · · · · · · · · · · · · · ·	TUBING		<u>/ / / / / / / / / / / / / / / / / / / </u>	V	TEIGIDI	FILTERE	TED AT:		DED AT: TER SIZE:			
	WELL (feet):	14			AL CODE:	PR				D: Y 🔨 ent Type:	F1L	TER SIZE: _	μm		
FIELD DE	CONTAMINATIO	ON: PUI	IP Y	N .	TUB	ING	N (replaced	1)	DUPLI	CATE: Y	<u>@</u>				
SAM	PLE CONTAINE	R SPECIFIC	ATION		SAMP	LE PRESER	VATION			TENDED	SAMPLI	NG SAMI	PLE PUMP		
SAMPLE ID CODE	# CONTAINERS	MATERIA L CODE	VOLUME		RVATIVE	TOTAL ADDED IN F		FINAL pH		'SIS AND/OR ETHOD	EQUIPM CODE		OW RATE per minute)		
A-12-19		HPPE	250		A	ADDED IN F	IELD (IIIL)	pri	СН	LORIDE	APP	٥.	٥7		
											-				
															
						,									

REMARKS	:	<u> </u>					· · · · · ·								
MATERIA	CODES:	AG = Amber	Glass; CG	= Clear Gl	ass; PE	= Polyethyler	ne; PP = F	Polypropyle	ne; S	= Silicone; T	= Teflon;	O = Other (S	specify)		
SAMPLIN	G EQUIPMENT		APP = After F RFPP = Reve			= Bailer; np; SM =	BP = Bladde Straw Metho		ESP = Gravity Dr	Electric Submain); O = 0	ersible Pum Other (Speci				

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

^{2.} STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

SITE NAME: C-	H63					SITE								
WELL NO:	<u> 53</u>	Δ		SAI	MPLE ID:		ļ			DATE:				
					P	URGING	DATA							
	(inches): 0.75		ETER (inches)		WELL SO DEPTH: feet	CREEN INTER	24	STATIC D	R (feet):		PURGE P OR BAILE	UMP TYPE R: PP		
	UME PURGE: if applicable)	1 WELL VO	DLUME = (TO	TAL WELI	. DEPTH - feet		EPTH TO W	ATER) X feet) X	WELL C		ıs/foot =		gallons	
	IT VOLUME PI if applicable)	JRGE: 1 EQ	UIPMENT VO	L. = PUMF =	VOLUME		APACITY 6 gallons/fo	X TU		NGTH) + FLOV feet) + 6	V CELL VOI	UME allons =	-21 gallons	
	MP OR TUBIN WELL (feet):	G 54		IMP OR TU WELL (fe			URGING IITIATED AT	- •	PURG ENDE			AL VOLUME GED (gallons):	
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	(0)	COND. (circle units µmbos/cm of µS/cm	mg/l	GEN units) - <u>or</u>	TURBIDITY (NTUs)	ORP	NITRATE	NITRITE	
17:11	0.21	0.21	0.11		6.19	371 (294	377	13.7	7 700	90.0		0	
17:13	0.37	0.83	0.10		5.92	25.06	70.0	15.6		450	15.3	25	0	
	ACITY (Gallon SIDE DIA. CAI				04; 1.25 3/16" = 0.0		" = 0.16; = 0.0026;	3" = 0.37; 5/16" = 0.0	4" = 0.0	35; 5" = 1.02 / 8" = 0.006;	2; 6" = 1. 1/2" = 0.01		5.88 0.016	
PURGING I	EQUIPMENT C	ODES:	B = Bailer;	BP = Blad	der Pump;	ESP = E		nersible Pun	np; F	PP = Peristaltic	Pump;	O = Other (S	pecify)	
SAMPLED	BY (PRINT) / A	FFILIATION:		SAMPLE		ATURE(S):		4	SAMPI			MPLING		
PUMP OR			4	TUBING		4	VV		I FILTERE			DED AT: TER SIZE: _	μm	
	WELL (feet): ONTAMINATION		· · · · · · · · · · · · · · · · · · ·	MATERI N∕)	AL CODE: TU	BING (1)	N (replace		n Equipm DUPLI	ent Type: CATE: Y	<u> </u>			
SAMP	PLE CONTAINE	R SPECIFIC	ATION			PLE PRESER	VATION			TENDED	SAMPLI		PLE PUMP	
SAMPLE ID CODE	# CONTAINERS	MATERIA L CODE	VOLUME	UŞ	RVATIVE SED	TOTAL ADDED IN F		FINAL pH		'SIS AND/OR IETHOD	EQUIPMI		OW RATE per minute)	
3A-22-2	4 ((409e	250	N	A				CH	ILORIDE	APP	0	90.	
										·				
REMARKS:		<u> </u>		<u>. </u>	· ,				l		l			
MATERIAL	CODES:	AG = Ambe	r Glass; CG	= Clear Gi	ass; PE	E = Polyethyle	ne; PP =		ene; S	= Silicone; T	= Teflon;	O = Other (Specify)	
	EQUIPMENT	CODES:	APP = After F RFPP = Reve	Peristaltic P	ump;	B = Bailer;	BP = Blad		ESP =	Electric Subm	ersible Pum Other (Speci	D;	-,-	

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

pH: \pm 0.2 units Temperature: \pm 0.2 °C Specific Conductance: \pm 5% Dissolved Oxygen: all readings \leq 20% saturation (see Table FS 2200-2); optionally, \pm 0.2 mg/L or \pm 10% (whichever is greater) Turbidity: all readings \leq 20 NTU; optionally \pm 5 NTU or \pm 10% (whichever is greater)

^{2.} STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

SITE NAME: C-I						SITE	TION						
WELL NO:	03	3 A		SAM	MPLE ID:					DATE:			
······································				-	P	URGIN	IG DATA	· · · · · · · · · · · · · · · · · · ·)			
	(inches): 0.75		ETER (inches)		DEPTH:	REEN INT	to 34		ER (feet):		PURGE PI OR BAILE	UMP TYPE R: PP	
(only fill out i	f applicable)		= (feet -	_	DEPTH TO W	feet) X		gallo	ns/foot =	LINE	galions
(only fill out i	T VOLUME PU f applicable)	7 J	-	=	gallons	+(0,0	gallons/fo		_	feet) +		allons = 0.	24 gallons
DEPTH IN V	IP OR TUBING VELL (feet):	3 32'	FINAL PL DEPTH II	IMP OR TU WELL (fe	JBING 3	4	PURGING INITIATED A			GING 17:	TOTA PURC	AL VOLUME GED (gallons):0.75
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP.	COND. (circle units) OX (circ	SOLVED (YGEN de units) g/L or aturation	TURBIDITY (NTUs)	ORP	NITRATE	NITRITE
17:33	0.24	0.24	6.12	-			308			Er 3		40	0.75
17:38	0.25	0.49	0.07				305			Er2		60	0
17:40	0.15	0.61	0.07	•			301	<u> </u>		(000)		60	0
				· · · · · · · · · · · · · · · · · · ·									
													<u> </u>
WELL CAPA	ACITY (Gallon:	s Per Foot):	0.75" = 0.02;	1" = 0.0	04; 1.25	' = 0.06;	2" = 0.16;	3" = 0.37;	4 " = 0	.65; 5" = 1.0	2; 6" = 1.	47; 12" =	5.88
TUBING INS	SIDE DÌA. CAF QUIPMENT C	PACITY (Gal.		0.0006;	3/16" = 0.0 ider Pump;	014; 1 /4	" = 0.0026; = Electric Subr	5/16" = 0		3/8" = 0.006; PP = Peristaltic	1/2" = 0.01	0; 5/8" = O = Other (S	
PORGING E	QUIPMENT	ODES. I	3 - Daller,	DF - DIAC			NG DATA		iiip,	rr - renstatuc	rump,	O - Other (S	pecity)
	Y (PRINT) / A		÷ ,	SAMPLE	R(S) SIGN	ATURE(S)	11		SAMP	LING TED AT: 17:	42 SAI	MPLING (7:44
M. Mechling, PUMP OR T DEPTH IN V		ineering 34		TUBING	AL CODE:)-FILTERE			TER SIZE: _	μm
	ONTAMINATIO	ON: PUI	MP Y (N N		BING (N (replace		T		<u>(()</u>		
SAMPI	E CONTAINE	R SPECIFIC	ATION		SAMI	PLE PRES	ERVATION			NTENDED	SAMPLII		PLE PUMP
SAMPLE ID CODE	# CONTAINERS	MATERIA L CODE	VOLUME		RVATIVE ED		AL VOL N FIELD (mL)	FINAL pH		YSIS AND/OR METHOD	EQUIPME	1)	DW RATE per minute)
A -32-34	l	HOPE	250	N	A				CI	HLORIDE	APP	0	.07
REMARKS:	RE	ASIN	GS F	>1 ·	TEM!		(0N)	o Re		mping		N) AINST	 `
MATERIAL	CODES:	AG = Amber	Glass; CG	= Clear Gl		= Polyeth		Polypropy		= Silicone; T		O = Other (S	
	EQUIPMENT		APP = After F RFPP = Reve	rse Flow Pe	eristaltic Pu	•	BP = Blad II = Straw Meth	od (Tubing	Gravity D	= Electric Subm Orain); O = 0	ersible Pump Other (Specif		

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: \pm 0.2 units Temperature: \pm 0.2 °C Specific Conductance: \pm 5% Dissolved Oxygen: all readings \leq 20% saturation (see Table FS 2200-2); optionally, \pm 0.2 mg/L or \pm 10% (whichever is greater) Turbidity: all readings \leq 20 NTU; optionally \pm 5 NTU or \pm 10% (whichever is greater)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

ATTACHMENT 2

BORING LOGS

			Page 1 of
Boring/Well Number: 03 I	}	M/A	/ ' '
Site Name: C - HS3	Borehole Start Date		_ /
Environmental Contractor:	Geologist's Name		I Technician's Name:
Meching Engineeri	<u>\frac{1}{2} \rightarrow \frac{1}{2} \rightarrow \frac</u>	Dari	
EUS	othent Thickness (inche	4.25	chole Depth (feet): えし
Drilling Method: Hollow Stew Apparent Bor	rehole DTW (in feet oisture content):	Measured Well DTW (in feet after water recharges in well): 10,9	del and check type):
Disposition of Drill Cuttings [check metho		ım Spread Backfill Stock	pile Cother
(describe if other or multiple items are che Borehole Completion (check one):	Well Grout	Г Bentonite Г Backfill Г О	ther (describe)
Unfil Unfil SI Samp Samp Samp Sam Into		San alla Danas tastan	Lab Soil and Groundwater
SPT Blows (per six inches) ample Recover (inches) Sample Depth Interval (feet)	Depth (feet) Net OVA	Sample Description (include grain size based on USCS, odors, staining,	USCS Symbol Telephone Groundwater Samples (list sample number and depth or temporary screen
Unfiltered OVA SPT Blows (per six inches) Sample Recovery (inches) Sample Depth Interval (feet)	A eet)	and other remarks)	USCS Symbol On temporary screen interval)
SH SH	1	Tan fine Sand odorless	D
BE		11	
		,	
P)+	3	Brown fine Sand	D
	4	1.	
DE	5	Brown-tan fine sand	$ \mathcal{D} $
11	6		
	7	Brown fre saud	$ \mathcal{D} $
'	8 6	Grey fine sand	M
r ₁	9	Fire sand Tan Fire sand	M
u	10	ŧ ı	M
i,	11	; ≀ 1	
(12	. (D H

														ge 2 of	
	9/Well N		r:	FDEP I	acility I		ation Nur	nber:	Site Name	H.S.	3	Borchole	Start E	Date: ¿	127/12
Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)		Sar te grain siz a	mple De se based o nd other i	scription n USCS, odo remarks)		USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
DC V							13 14	Lig	jht -	tan	Fme Fme	Sand		M	
il							16 17 18	11		Cun	Two c	mue		M	
17							19	7 (М	
11							21	Ligu	st tau	460	ey F.	re saud		M	
							22 23 24 25 26 27 28 29 30								.

										Page I	of 2
Boring	₃/Well N	√umber	Ø4	0		Permit !	Permit Number: FDEP Facility Identification Number:				ation Number:
Site N	(<u> </u>	HS3			Boreho	End Date: 6/27/12 Borehole Start Time: 2:15 AM FPM End Date: 6/27/12 End Time: AM FPM				
Enviro	nmenta	Contr	ractor: be	411		Geologi	ist's Name		Environment		
Drillin	ng Comp	nanv.	<u> </u>	Chia	Paveme	ent Thick	kness (incl	hes): Borehole Diameter (inches): 4.25 Bor	ehole Dep	th (feet):
	ng Meth	od:				ole DTW ((in feet	Measured Well DTW (in fe	et after OVA (list, m		heck type):
Dispos	sition of	f Drill (Cuttings [c	check m	nethod(s))]:	Гр		Backfill Stock		C Other
			<i>multiple it</i> n (check o			<i>d):</i> Well	☐ Gro	ut	Backfill [(Other (desc	ik.g\
Doren	OIC CON	ipicuoi	1 (circen o	nej.) -	VV CII	1 010	at a Demonite a	Dackini j (Miler (desc	ribej
Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Des (include grain size based on and other re	USCS, odors, staining,	USCS Symbol	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
O A PH							1 2 3	orange sau	2, odor less	I	>
PH							4	11		Ī	
ĎС							6 7	Tan-grey IN	ne Sand odores	s I	>
DC							8 9	Tan, five, od	corless sand		
SC							10	Rego Grey-tai	n Sand		
DC							11	Grey sind		^	1

Borin	g/Well l	dromb-	,	IEO ED I	Tanilia 1	da de	-A	Page 2 of
Borin	g weii r	94	0	FOEP		A	ation Nur	Borchole Start Date: 6/27/12 C - 1453 Borchole Start Date: 6/27/12
Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks) Lab Soil and Groundwater Samples (list sample number and depth or temporary screet interval)
DC							13 14	Grey Five sanz M
DC							15	11 M
DC							17 18	white sand, odorless W
DC							19 20	white - our ange five sand W
X							21	white blue sand; odoriess W
							22 23 24	
							25 26	
							²⁷ ²⁸	
							29 30	

		Page 1 of 2		
Boring/Well Number: 04U	Permit Number:	FDEP Facility Identification Number:		
Site Name: C - HS3	Borehole Start Date: 6/27/12 Borehole Start Ti	vi 1		
Environmental Contractor:		invironmental Technician's Name:		
Drilling Company: EDS Paver	ement Thickness (inches): Borehole Diameter (inches): 4.	.25 Borehole Depth (feet): 18		
l	chole DTW (in feet , Measured Well DTW (in feet after isture content): + water recharges in well): + +	OVA (list model and check type): A FID FID		
Disposition of Drill Cuttings [check method		Stockpile Cother		
(describe if other or multiple items are check				
Borehole Completion (check one):	Well Grout Bentonite Backfill	Other (describe)		
Filtered OVA Unfiltered OVA SPT Blows (per six inches) Sample Recovery (inches) Sample Depth Interval (feet) Sample Type	Sample Description (include grain size based on USCS, odors and other remarks)	USCS Symbol USCS Symbol USCS Symbol Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)		
PH	- 1 - 2 Ovange fixe san odor	J 18'SS		
PH	4 11			
DC	- 5 Orange - gray fine	sand D		
it	7 11	M		
14	- 8 Grey the san	13 M		
i () () () () () () () () () (- 7 11 - 8 Grey fine san - 9 - 10 White fine san - 11 - 12 120 "	13 W		
aci'	12 1600 (1	l l		

Borin	g/Well h	Vumber		EVED I	anilie.	Homesi Gra	-eia- No	Page 2 of 2
B01111	04			ruer i	N	ZA.	ation Nur	C-HS3 End Date: (0/27/12
Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks) Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
DC							15 16	White The sand, adorless
PC							18	Grey Sand "
							19 20 21 22 23 24 25 26 27 28 29 30	

9

BORING LOG

											e I of	<u> </u>
Boring	/Well N	lumber	00	GN		Permit 1	Number:	ŀ	DEP Facilit	ly Ideni	ificatio	on Number:
Site N	_	,	11 < 1	<u>ሦ</u> ን		Boreho	le Start D	*/, * / *	•	, -		М ГРМ
F			45	<u>ა</u>		CI			me: 8:1			М РМ
	nmenta		actor:				ist's Nam		Environment			
	g Comp		ED:	S		N/A	cness (inc	4.25		ehole [21
Drillin	g Meth	od: H	SA	1 ''	t Borchol il moistu			water recharges in well): 10,33	OVA (list mo	odel an A	d checl	k type): FID F PID
			Cuttings [c			-	ه ۲		Г Śtock	pile	厂	Other
Boreh	ole Con	pletion	n (check o	ne):	استا	Well	☐ Gro	ut F Bentonite F Backfill	Г	Other (c	lescribo	e)
Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odor: and other remarks)	s, staining,	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
9 H							i 2 3	Brown fine sand	l,odorks	\$	D	
419							4	orange-brown fine yellow fine San	saud		D	
DC								yellow fine san	ıd		D	
ŧ(6 7 8	tan fine sand			Ð	
ę1							_ 9 _ 10	it			\mathcal{D}	
ħ							11	1(D	

Borin	g/Well N	Number		IFDEP I	acility I	dentific	ation Nun	nber: Site Name: Borchole		ge 2 of	***************************************
	6N		•		14	A	ation ivan	C-HS3	End D	ate: (0/28/12
Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
DC								tan fine sand, odoriess		M	
و کل								Light tan five sand		M	
()							16 17	11		M	
۱۱							18 19	white fine sand		W	
ſ1							20 21	*1		3	
							22 23 24 25 26 27 28 29 30				

ATTACHMENT 3

SLUG TEST DATA

WE	LL ID: C-HS3, well 05M		Reduced Data	
INDLIT	D		Time,	Water
INPUT	Date: 6/26/2012	Entry	Hr:Min:Sec	Level
Construction: Casing dia. (d _c) 2 Inch	Time: 18:04	1 2	0:00:00.0	11.7
• ()			0:00:03.5	11.7
Annulus dia. (d _w) 8.25 Inch	↓ → ← d _c	3	0:00:07.0	11.7
Screen Length (L) 5 Feet	↑ DTW ↑	4	0:00:10.5	11.7
	^ ^ ^	5	0:00:14.0	11.7
Depths to:	TOS V	6	0:00:17.5	11.7
water level (DTW) 10.87 Feet	L DTB L L L	7	0:00:21.0	11.7
top of screen (TOS) 20 Feet		8	0:00:24.5	13.
Base of Aquifer (DTB) 25 Feet		9	0:00:28.0	12.
	d _w	10	0:00:31.5	11.
Annular Fill:	Base of Aquifer	11	0:00:35.0	11.8
across screen Coarse Sand	Succe of Aquitor	12	0:00:38.5	11.
above screen Bentonite	Adjust slope of line to estimate K	13	0:00:42.0	11.
Aguifer Meterial Fine Cond	Adjust slope of line to commute it	14	0:00:45.5	11.
Aquifer Material Fine Sand		15 16	0:00:49.0	11. 11.
COMPUTED	ļ <mark>Ψ</mark>	l	0:00:52.5	
		17 18	0:00:56.0	11.
wollou		I -	0:00:59.5	11.
D = 14.13 Feet H = 14.13 Feet		19 20	0:01:03.0 0:01:06.5	11. 11.
L/r _w = 14.13 Feet		20	0:01:06.5	11.
"				
$y_{0-DISPLACEMENT} = 5.69 \text{ Feet}$		22	0:01:13.5	11.
$y_{0-SLUG} = 2.76 \text{ Feet}$	، برب _ه	23	0:01:17.0	11.
From look-up table using L/r _w	🕺	24	0:01:20.5	11.
		25	0:01:24.0	11.
	The state of the s	26	0:01:27.5	11.
Fully penetrate C = 1.488	6	27	0:01:31.0	11.
ln(Re/rw) = 2.511	8	28	0:01:34.5	11.
Re = 4.23 Feet	0	29	0:01:38.0	11.
0 00 1000 1 /	_ •	30	0:01:41.5	11.
Slope = $0.024686 \log_{10}/\text{se}$	°C &	31	0:01:45.0	11.
$t_{90\%}$ recovery = 41 sec		32	0:01:48.5	11.
nput is consistent.	0	33	0:01:52.0	11.
		34	0:01:55.5	11.
K = 8.6 Feet/Da	0.90	35	0:01:59.0	11.
	00:00 00:43 01:26 02:10 02	:53 36	0:02:02.5	11.
	TIME, Minute:Second	37	0:02:06.0	11.
		38	0:02:09.5	11.
DEMARKO:	December and Direction of the Color of Management	39	0:02:13.0	11.
REMARKS:	Bouwer and Rice analysis of slug test, WRR		0:02:16.5	11.
		41	0:02:20.0	11.
		42	0:02:23.5	11.
		43	0:02:27.0	11.
		44 45	0:02:30.5	11.
		45	0:02:34.0	11



Appendix C: Groundwater Screening

Table C.1 Site C-HS3 Groundwater Screening June 25 and 26, 2012¹

						·····		,	
Location	Screening Interval (ft bgs)	Temp (°C)	рН	SC (µS)	DO (mg/ L)	ORP (mV)	Turbidity (NTU) ²	Est. NO3-N (Test Strip mg-N/L)	Est. NO2-N (Test Strip mg-N/L)
	12-14	22.83	6.47	103	5.59	83.1	500	1	0
03A	22-24	25.06	5.92	299	NR	106.3	450	6	0
	32-34	NR	NR	304	NR	NR	1000	14	0
	10-12	23.98	2.51	784	4.74	379.5	0.29	27	0
	12-14	24.53	3.98	541	3.52	284.7	2.15	14	0
	14-16	24.54	6.12	541	3.13	121.3	40	18	0
	16-18	23.43	6.46	286	3.41	206.9	NR	9	NR
02141	18-20	24.21	6.55	146	3.09	104.2	NR	NR	NR
03ML	20-22	24.26	6.45	171	2.37	173	NR	5	NR
	30-32	24.19	5.77	347	0.34	31.9	NR	5	0
	40-42	24.73	5.99	357	0.16	-360.8	NR	9	0
	50-52	25.13	5.58	353	0.22	-61.7	432	7	0
	60-62	25.47	4.95	363	0.31	31.5	774	7	0
	10-12	24.09	7.52	96	3.87	127.4	730	0	0
	12-14	23.52	7.89	117	4.33	114.9	790	0	0
	14-16	24.20	8.32	105	3.67	107.5	NR	0	0
	16-18	24.38	8.07	100	2.87	108.9	NR	NR	NR
	18-20	24.39	7.99	123	2.77	127.8	NR	NR	NR
020	20-22	24.58	7.21	224	1.42	141.5	400	2	0
030	22-24	25.13	7.30	295	0.52	139.6	768	7	0
	32-34	25.00	6.50	305	0.38	110.5	NR	5	0
	42-44	25.27	6.80	405	0.26	-18.5	980	9	0
	52-54	25.74	6.74	359	0.17	-118.4	NR	14	0
	62-64	26.24	6.08	438	0.28	206.3	320	18	0
10	72-74	26.52	5.93	301	0.5	114	260	9	0

¹Groundwater screening samples collected using a direct push rig



Appendix D: Soil Sample Descriptions

Table D.1 Site C-HS3 Soil Sample Descriptions

	Site C-HS3 Soil Sample Descriptions								
Location	Depth (ft bgs)	Munsell Soil Color	Description						
	0-1'	10 YR 3/2	Very dark grayish brown fine sand						
PZ01	1-3.8'	10 YR 5/4	Yellowish brown fine sand						
	3.8-6.85'	10 YR 5/6	Yellowish brown fine sand						
	9"-1.7'	10 YR 3/3	Dark brown fine sand						
PZ03	1.7-4.2'	10 YR 4/3	Brown fine sand						
	4.2-6.5'	10 YR 5/4	Yellowish brown fine sand						
	5'-14'3"	10 YR 5/6	Yellowish brown fine sand						
	14'3"-15'	10 YR 7/3	Very pale brown fine sand						
	15-18'	10 YR 6/3	Pale brown fine sand						
03ML	18-20'	10 YR 2/1	Black fine sand						
USIVIL	20-25'	10 YR 3/1	Very dark gray fine sand						
	25-30'	10 YR 5/3	Brown fine sand						
	30-35'	10 YR 7/2	Light gray fine sand						
	35-40'	10 YR 8/2	Very pale brown fine sand						
	5-9'6"	10 YR 6/6	Brownish yellow fine sand						
	9'6"-10'	10 YR 6/3	Pale brown fine sand						
	10-19'4"	10 YR 6/3	Pale brown fine sand						
	19'4"-20'	10 YR 2/1	Black fine sand						
030	20-25'	10 YR 3/2	Very dark grayish brown fine sand						
	25-29'	10 YR 5/3	Brown fine sand						
	29-30'	10 YR 6/3	Pale brown fine sand						
	30-35'	10 YR 8/2	Very pale brown fine sand						
	40-45'	10 YR 8/1	White loamy sand						
040	~18'	10 YR 2/2	Very dark brown fine sand						



Appendix E: June Groundwater Sampling

Table E.1
Field Parameter Results
(June 27 through 29, 2012 and July 13, 2012)

	(June 27 through 29, 2012	pН	Specific
Location	Temperature		Conductance
Location	(°C)		(µS/cm)
PZ-03A-15	27.1	6.10	56
PZ-03A-17	26.9	5.96	90
PZ-03A-21	27.9	5.71	315
PZ-03I-15	27.4	5.67	108
PZ-03I-17	28.0	5.92	439
PZ-03I-21	26.4	4.99	120
PZ-03K-15	27.6	6.62	327
PZ-03K-17	27.2	6.64	61
PZ-03K-21	27.8	6.25	160
PZ-02L-15	28.6	6.44	157
PZ-02L-17	27.1	6.19	58
PZ-02L-21	28.2	5.46	139
PZ-04L-15	27.8	6.45	186
PZ-04L-17	29.1	6.58	70
PZ-04L-21	28.7	5.89	189
PZ-07L-15	29.7	6.47	233
PZ-07L-17	30.1	6.02	215
PZ-03ML-15	28.0	6.04	576
PZ-03ML-17	28.1	6.65	84
PZ-03ML-21	28.1	6.09	184
PZ-00N-15	29.4	6.57	153
PZ-00N-17	29.3	5.55	69
PZ-00N-21	30.1	4.82	145
PZ-02N-15	30.3	6.65	115
PZ-02N-17	28.2	6.31	48
PZ-02N-21	26.3	4.91	162

Appendix E June 2012

Table E.1
Field Parameter Results
(June 27 through 29, 2012 and July 13, 2012)

		pН	Specific
	Temperature	Pii	Conductance
Location	(°C)		(µS/cm)
	. ,		,
PZ-04N-15	28.0	6.52	167
PZ-04N-17	28.8	6.30	56
PZ-04N-21	28.3	6.01	192
PZ-06N-15	26.6	6.08	101
PZ-06N-17	28.5	6.48	82
PZ-06N-21	27.4	5.63	119
PZ-030-15	27.3	6.52	90
PZ-030-17	27.5	6.18	106
PZ-030-21	27.2	5.45	238
PZ-04O-15	27.0	6.41	162
PZ-04O-17	26.7	6.56	109
PZ-04O-21	26.7	5.25	200
PZ-07O-15	29.1	6.34	62
PZ-07O-17	28.8	6.86	151
PZ-07O-20	28.3	5.43	107
PZ-04Q-13	26.4	6.86	249
PZ-04Q-15	26.4	6.72	123
PZ-04Q-19	26.4	6.16	111
PZ-06Q-13	28.9	6.04	299
PZ-06Q-15	28.2	5.60	535
PZ-06Q-19	27.9	5.63	392
PZ-07Q-13	30.3	6.62	218
PZ-07Q-15	28.5	6.16	144
PZ-07Q-19	28.4	6.01	112
PZ-04U-12	31.2	6.07	123
PZ-04U-14	29.9	5.57	71
PZ-04U-18	28.5	5.28	99
PZ-06U-12	28.1	6.44	350
PZ-06U-14	27.8	5.94	243