FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
GROUND WATER SAMPLING FIELD LOG SHEET
Watershed Monitoring Section
January 2013

CU

SAMPLING AGENCY: FDEP-GWM	FLUWID: AAN3421	OWNER: ~~SRWMD~~
STATUS RANDOM ID: MSFMW19	STATION NAME: MSFMW19	PROJECT: Santa Fe Nutrient Study
LAND SURFACE ELEV.(LSE): NA	CASING MATERIAL: PVC	TOTAL DEPTH: 69.65
MEASURING POINT ELEV.(MPE): NA	CASING DIAMETER: 4"	

All Times Are (EST) or CTZ (circle one) Date/Time On Site: 5-7-13 / 12:30 Date/Time Off Site: 5-7-13 / 14:04

Field Sheet Completed By: Green WQ Samples Collected By: Wade

POTENTIOMETRIC METHOD (Stickup is MPE - LSE)

Total Depth – (Depth to Water - Stickup) = Water Column Height (*DTW = N/A if not measurable) Second Reading

69.65 – (25.28 - NA) = 44.37 ft (WCH) 44.37 ft (WCH)

DTW - SU = _____

TAPE / CHALK METHOD

Total Depth - ((Held at - Wetted At) - SU) = Water Column Height

1. _____ - ((_____ - _____) - _____) = _____
2. _____ - ((_____ - _____) - _____) = _____

DTW - SU = _____

PURGE METHOD (Check one):

X 1) 1.5 well volumes and stability ____ 2) In-place plumbing purge and stability (continuous and intermittently running wells)

____ 3) More than 1.5 well volumes and stability ____ 4) Fully dry purge (not recommended)

____ 5) Purged 5 or more well volumes without stability (explain in comments) ____ 6) Other (explain in comments)

MINIMUM PURGE VOLUME DETERMINATION

.041 X Diameter X Diameter X Water Column Height X # Well Purge Volumes = Min. Purge Volume (gal.)

.041 X _____ X _____ X _____ X 1.5 = _____

IPV = 29

1 - 10
2 - 13
3 - 15

Water Column Height (WCH) X Well Capacity X # Well Purge Volumes = Min. Purge Volume (gal)

44.37 X .65 X 1.5 = 43.26 (gal.)

1 Well Purge Volume: _____ (gal.) 1/4 Well Purge Volume: _____ (gal.) Volume of tank (if required to purge): _____ (gal.)

Well Capacity (Gallons per ft) : .75" = .02, 1" = .04, 1.25" = .06, 2" = .16, 3" = .37, 4" = .65, 5" = 1.02, 6" = 1.47, 8" = 2.62, 10" = 4.10, 12" = 5.88

Purge Equipment Used: submersible Sample Equipment Used: Redi-flo #4

Please include type of pump (peristaltic, submersible, etc.)**AND** pump ID# (ex. Redi-flo #1, Grundfos #2, etc.)

Minimum Purge Time: (Min. Purge Volume/Purge Rate) 14.42 (min.)

Time Purge Begin: 13:19 (24hr) Time Purge Stop: 13:34 (24hr) Purge Rate: 3 (gal/min)

Total Purge Time: 15 (min.) Total Purge Volume: 45 (gal.)
(Purge rate X Total purge Time)

Time Sampling Begin: 13:35 (24 hr) Time Sampling Stop: 13:41 (24 hr)

PLACE FLUWID LABEL HERE (if applicable)	PLACE SITE LABEL HERE	PLACE QA/QC LABEL HERE (if applicable)

QA/QC Sample: (Circle One) N/A Field Blank Equipment Blank (Field-cleaned) (Lab-cleaned) Time (24hr): _____

Equipment Used: _____ Collected by: _____

Well Condition: Normal Fuel-Powered Equipment Used? (Yes) No (Circle One)

Placement Depth of Tubing or Pump Intake: 30'

Drawdown Monitored? (Circle One) No (N/A) (Yes, no drawdown) Yes, drawdown noticed and corrected for

This is verified by recording depth to water in the Chemical Stability Monitoring section.

Sulfur Odor?: (Circle One) (Yes) No Color: NO

Personnel/Visitors On Site: Green/Wade

Weather Conditions: P-cloudy

PRESERVATION INFORMATION ☐ N/A (No samples collected; non-quarterly Trend month, etc.)

Were all appropriate samples (including QA/QC blanks) preserved within 15 minutes including the following: wet ice (<6°C); nutrient samples with 1 mL sulfuric acid; metal samples with 1 mL nitric acid; ortho-phosphate sample filtered with a .45µm filter; and anion, metal and nutrient samples filtered with a .45µm filter (for Oct. TREND network only) (Yes) No

Were all acidified samples verified that the pH was less than 2 SU? (Yes) No Preserved By: Wade

Preservative Lot #s: Sulfuric SA 2363040 Nitric NA 2363050

(Please describe any variations to this preservation protocol in the comments section below.)

COMMENTS: (Include any variations from normal preservation protocols; ex. adding more than 1 ml acid, unable to monitor depth to water because..., etc.)

CHEMICAL STABILITY MONITORING Meter ID# 12 YSI 600 XLM Read By: Green

	Time (24hr.)	Volume Purged (gallons)	Purge Rate (gal/min)	Depth to Water (feet)***	Temp. (°C)	Cond. (µmhos/cm)	DO (%)	DO (mg/L)	pH (SU)	Turbidity (NTU)	Comments
1	13:29	30	3	25.82	23.4	274	2.2	0.18	7.5	14.6	
2	13:32	39	3	25.82	23.4	274	2.2	0.18	7.5	14.0	
3	13:34	45	3	25.82	23.3	274	2.2	0.19	7.5	12.2	
4											
5											
6											
7											
8											
9											
10											

Stability Criteria: Temp. ± 0.2°C Specific Conductance ± 5.0% of reading DO ≤ 20% pH ± 0.2 SU Turbidity ≤ 20 NTUs

If DO > 20% or Turbidity > 20 NTUs then: DO ± 0.2 mg/L or 10%, whichever is greater and Turbidity ± 5 NTUs or 10%, whichever is greater

*** Depth to Water needs to be documented if well diameter allows room for both tubing/pump and potentiometer. Not applicable to wells with in-place plumbing. If not applicable, please write "N/A" for this column.

Sampler Names: Chris Green Edgar Wade

(Please PRINT)

Sampler Signatures: C. Green Edgar Wade

OFFICE USE ONLY

Reviewed for completion by: **Date:**