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

January 2013

SAMPLING AGENCY: FDEP-GWM	FLUWID: AAN3422	OWNER:
STATUS RANDOM ID: MSFMW17	STATION NAME: MSFMW17	PROJECT: Santa Fe Nutrient Study
LAND SURFACE ELEV.(LSE): NA	CASING MATERIAL: PVC	TOTAL DEPTH: 50.52
MEASURING POINT ELEV.(MPE): NA	CASING DIAMETER: 4"	

All Times Are: (ETZ) or CTZ (circle one) Date/Time On Site: 5-8-13/9:08 Date/Time Off Site: 5-8-13/11:42

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

50.52 – (37.06 - NA) = 13.46 ft (WCH) 13.46 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 = 8 cc 9
1 - 9
2 - 12
3 - 14

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

13.46 X .65 X 1.5 = 13.12 (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) 13.12 (min.)

Time Purge Begin: 11:04 (24hr) Time Purge Stop: 11:18 (24hr) Purge Rate: 1 (gal/min)

Total Purge Time: 14 (min.) Total Purge Volume: 14 (gal.)
(Purge rate X Total purge Time)

Time Sampling Begin: 11:19 (24 hr) Time Sampling Stop: 11:23 (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? (Circle One) Yes No

Placement Depth of Tubing or Pump Intake: 41'

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: Clear

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	11:13	9	1	37.98	23.7	480	63.7	5.39	7.0	2.99	
2	11:16	12	1	37.98	23.7	480	63.6	5.38	7.0	1.78	
3	11:18	14	1	37.98	23.7	477	63.8	5.40	7.0	1.04	
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 (Please PRINT) Edgar Wade

Sampler Signatures: Chris Green Edgar Wade

OFFICE USE ONLY

Reviewed for completion by: **Date:**