



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
GROUND WATER SAMPLING FIELD LOG SHEET

Watershed Monitoring Section

January 2013

SAMPLING AGENCY: <u>FDEP-GWM</u>	FLUWID:	OWNER:
STATUS RANDOM ID: <u>POE SPRING</u>	STATION NAME:	PROJECT: <u>Santa Fe Nutrient study</u>
LAND SURFACE ELEV.(LSE):	CASING MATERIAL:	TOTAL DEPTH:
MEASURING POINT ELEV.(MPE):	CASING DIAMETER:	

All Times Are: ETZ or CTZ (circle one) Date/Time On Site: 5-16-13 Date/Time Off Site: _____

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
_____ - (_____ - _____) = _____ ft		_____ ft
DTW - SU = _____	(WCH)	(WCH)

TAPE / CHALK METHOD

Total Depth - ((Held at - Wetted At) - SU) = Water Column Height
1. _____ - ((_____ - _____) - _____) = _____
2. _____ - ((_____ - _____) - _____) = _____
DTW - SU = _____

PURGE METHOD (Check one):

- _____ 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 = _____

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

_____ X _____ X 1.5 = _____ (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: Peristaltic Sample Equipment Used: Peristaltic
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) _____ (min.)

Time Purge Begin: _____ (24hr) Time Purge Stop: _____ (24hr) Purge Rate: _____ (gal/min)

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

Time Sampling Begin: 15:15 (24 hr) Time Sampling Stop: _____ (24 hr)

PLACE FLUWID LABEL HERE (if applicable)	PLACE SITE LABEL HERE	PLACE QA/QC LABEL HERE (if applicable) <u>QA/QC Blank #6</u>
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QA/QC Sample: N/A Field Blank Equipment Blank Time (24hr): 15:45
 (Circle One) (Field-cleaned) (Lab-cleaned)
 Equipment Used: Peristaltic #2 w/ tubing Collected by: Wade

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

Placement Depth of Tubing or Pump Intake: _____

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: _____

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 #: 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# <u>12 YSI 600 XL M</u>					Read By: <u>Green</u>		
	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	<u>15:08</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>23.1</u>	<u>432</u>	<u>8.2</u>	<u>0.70</u>	<u>7.2</u>		
2	<u>15:11</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>23.1</u>	<u>432</u>	<u>8.0</u>	<u>0.68</u>	<u>7.2</u>		
3	<u>15:14</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>23.1</u>	<u>432</u>	<u>7.7</u>	<u>0.66</u>	<u>7.2</u>		
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

Sampler Signatures: Chris Green (Please PRINT)

OFFICE USE ONLY

Reviewed for completion by:

Date: