



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
GROUND WATER SAMPLING FIELD LOG SHEET

Watershed Monitoring Section

January 2013

SAMPLING AGENCY: 8034/FDEP	FLUWID:	OWNER:
STATUS RANDOM ID: N/A	STATION NAME: Twin Spring	PROJECT: MSFNS
LAND SURFACE ELEV.(LSE): N/A	CASING MATERIAL: N/A	TOTAL DEPTH: N/A
MEASURING POINT ELEV.(MPE): N/A	CASING DIAMETER: N/A	

All Times Are: ETZ or CTZ (circle one) Date/Time On Site: 11:50 8-28-13 Date/Time Off Site: 14:20 8-28-13

Field Sheet Completed By: DB WQ Samples Collected By: ME

POTENTIOMETRIC METHOD

(Stickup is MPE - LSE)

Total Depth - (Depth to Water - Stickup) = Water Column Height	(*DTW = N/A if not measurable)	Second Reading
<u>N/A</u> - (<u>N/A</u> - <u> </u>) = <u>N/A</u> ft	(WCH)	<u>N/A</u> ft
DTW - SU = <u> </u>	(WCH)	(WCH)

TAPE / CHALK METHOD

Total Depth - ((Held at - Wetted At) - SU) = Water Column Height
1. <u> </u> - ((<u> </u> - <u> </u>) - <u> </u>) = <u> </u>
2. <u> </u> - ((<u> </u> - <u> </u>) - <u> </u>) = <u> </u>
DTW - SU = <u> </u>

PURGE METHOD (Check one):

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

N/A 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: 13:41 (24hr) Time Purge Stop: 13:51 (24hr) Purge Rate: 0.25 (gal/min)

Total Purge Time: 10 (min.) Total Purge Volume: 2.5 (gal.)
(Purge rate X Total purge Time)

Time Sampling Begin: 13:52 (24 hr) Time Sampling Stop: 13:59 (24 hr)

PLACE FLUWID LABEL HERE (if applicable)	Twin Spring PLACE SITE LABEL HERE	Twin Spring "Spring-FLD" PLACE QA/QC LABEL HERE Blank (if applicable) <u>13:24</u>
---	---	---

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

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

Placement Depth of Tubing or Pump Intake: @ bail

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: None

Personnel/Visitors On Site: Mike Fickles / Paul Blair

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: PB

Preservative Lot #: Sulfuric 3137020 Nitric 3137010
 (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.)

* Spring: readings every 3 min for 9 min, 1 reading @ 10 min mark, collect samples

CHEMICAL STABILITY MONITORING

Meter ID# YSI 600 XLM #11 Read By: PB

	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	13:44		0.25	N/A	24.0	306	26.3	2.20	7.4	0.92	
2	13:47		↓	↓	24.2	306	26.2	2.20	7.4	0.83	
3	13:50		↓	↓	24.2	307	26.2	2.20	7.4	0.91	
4	13:51		↓	↓	24.2	307	26.1	2.19	7.4	0.79	
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: Paul Blair

Sampler Signatures: Paul Blair (Please PRINT)

Mike Fickles

OFFICE USE ONLY

Reviewed for completion by:

Date: