



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
GROUND WATER SAMPLING FIELD LOG SHEET

Watershed Monitoring Section

November 2014

SAMPLING AGENCY: <u>FDEP/8034</u>	FLUWID: <u>AAN3420</u>	OWNER: <u>David Hodge</u>
STATUS RANDOM ID:	STATION NAME: <u>MSF-MW18</u>	PROJECT: <u>SPRS1424</u>
LAND SURFACE ELEV.(LSE):	CASING MATERIAL: <u>PVC</u>	TOTAL DEPTH: <u>67'</u>
MEASURING POINT ELEV.(MPE):	CASING DIAMETER: <u>4"</u>	CASING DEPTH:
STICKUP (MEASURED, Status Network ONLY):		

All Times Are: ETZ or CTZ (circle one) Date/Time On Site: 10:40 10/22/14 Date/Time Off Site: 11:25 10-22-14

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

POTENTIOMETRIC METHOD

Total Depth - (Depth to Water - Stickup) = Water Column Height (*DTW = N/A if not measurable)	Second Reading
<u>67</u> - (<u>48.49</u> - <u>3.03</u>) = <u>21.54</u> ft	<u>21.54</u> ft
DTW - STICKUP = <u>45.46</u> (WCH)	(WCH)

TAPE / CHALK METHOD

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

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 Gfw (gallons per foot of water) X # Well Purge Volumes = Min. Purge Volume (gal)

21.54 X 0.65 X 1.5 = 21 (gal.)

1 Well Purge Volume: 14.00 (gal.) 1/4 Well Purge Volume: 3.5 (gal.) Volume of tank (if required to purge): _____ (gal.)

Well Diameter (inches) → Gfw (Gallons per foot of water): 0.75" → 0.02; 1" → 0.04; 1.25" → 0.06; 2" → 0.16; 3" → 0.37; 4" → 0.65; 5" → 1.02; 6" → 1.47; 8" → 2.62; 10" → 4.10; 12" → 5.88

Purge Equipment Used: Redi-flo II #1 Sample Equipment Used: Redi-flo II #1 / Tube / Flow Cell
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) 21 (min.)

Time Purge Begin: 10:51 (24hr) Time Purge Stop: 11:12 (24hr) Purge Rate: 1 (gal/min)

Total Purge Time: 21 (min.) Total Purge Volume: 21 (gal.)
(Purge rate X Total purge Time)

Time Sampling Begin: 11:13 (24 hr) Time Sampling Stop: 11:17 (24 hr)

<u>AAN3420</u> PLACE FLUWID LABEL HERE (if applicable)	<u>MSF-MW18</u> PLACE SITE LABEL HERE <u>SPRS1418</u> <u>SPRS1424</u>	PLACE QA/QC LABEL HERE (if applicable)
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QA/QC Sample: N/A Field Blank Equipment Blank Time (24hr): _____
 (Circle One) (Field-cleaned) (Lab-cleaned)
 Equipment Used: _____ Collected by: _____

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

Placement Depth of Tubing or Pump Intake: 52'

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 Eckles/Paul Blair

Weather Conditions: clear

Photos Taken? Yes No (indicate why in comments) Micro Land Use? Yes No (indicate why in comments)
 (Circle One. Required for all Status sites. Required Annually for Trend Sites.) (Circle One. Required for all Status sites. Required Annually for Trend Sites.)

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 ($\leq 6^{\circ}\text{C}$); nutrient samples with 1 mL sulfuric acid; metal samples with 1 mL nitric acid; ortho-phosphate sample filtered with a .45 μm filter; and anion, metal and nutrient samples filtered with a .45 μm 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 13511 Nitric 1113120
 (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 Continue on 2nd Field Sheet if Needed				Meter ID# <u>YSI 600XLM #11</u>				Read By: <u>PB</u>			
	Time (24hr.)	Volume Purged (gallons)	Purge Rate (gal/min)	Depth to Water (feet)***	Temp. ($^{\circ}\text{C}$)	Specific Conductance ($\mu\text{mhos/cm}$)	DO (%)	DO (mg/L)	pH (SU)	Turbidity (NTU)	Comments
1	11:05	14	1	49.41	22.9	986	83.4	7.15	6.8		
2	11:07	18	1	"	22.9	986	83.2	7.14	6.8		
3	11:12	21	1	"	22.9	983	83.2	7.14	6.8		
4											
5											
6											
7											
8											
9											
10											
Stability Criteria: Temp. $\pm 0.2^{\circ}\text{C}$ Specific Conductance $\pm 5.0\%$ of reading DO $\leq 20\%$ 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
 (Please PRINT)

Sampler Signatures: Paul Blair

Mike Eckles
Mike Eckles

OFFICE USE ONLY

Reviewed for completion by: _____ Date: _____