



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
GROUND WATER SAMPLING FIELD LOG SHEET

Watershed Monitoring Section

January 2013

SAMPLING AGENCY: 8034/FDEP	FLUIDID: AAN3410	OWNER: Robert Sealey
STATUS RANDOM ID:	STATION NAME: MSF MW-10	PROJECT: SPRS1310
LAND SURFACE ELEV.(LSE):	CASING MATERIAL: PVC	TOTAL DEPTH: 73'
MEASURING POINT ELEV.(MPE):	CASING DIAMETER: 4"	

All Times Are: ETZ or CTZ (circle one) Date/Time On Site: 16:07 12-17-13 Date/Time Off Site: 17:00 12-17-13

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

POTENTIOMETRIC METHOD

(Stickup is MPE - LSE)

Total Depth - (Depth to Water - Stickup) = Water Column Height	(*DTW = N/A if not measurable)	Second Reading
<u>73</u> - (<u>54.47</u> + <u>0.69</u>) = <u>17.84</u> ft		<u>17.84</u> ft
DTW - SU = <u>55.16</u>	(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.)

17.84 X 0.65 X 1.5 = 17.39 (gal.)

1 Well Purge Volume: 11.59 (gal.)

1/4 Well Purge Volume: 2.89 (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: 2" Redi-Flo #1 Sample Equipment Used: 2" Redi-Flo #1
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) 17.39 (min.)

Time Purge Begin: 16:18 (24hr)

Time Purge Stop: 16:36 (24hr) Purge Rate: 1 (gal/min)

Total Purge Time: 18 (min.)

Total Purge Volume: 18 (gal.)
(Purge rate X Total purge Time)

Time Sampling Begin: 16:37 (24 hr)

Time Sampling Stop: 16:42 (24 hr)

AAN3410

PLACE
FLUIDID LABEL HERE
(if applicable)

MSF MW-10

PLACE
SITE LABEL HERE

PLACE QA/QC LABEL HERE
(if applicable)

QA/QC Sample: N/A Field Blank Equipment Blank PB Time (24hr): 16:20
 (Circle One) (Field-cleaned) (Lab-cleaned)
 Equipment Used: 2 Collected by: ME

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

Placement Depth of Tubing or Pump Intake: 60'

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: _____

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 120591 Nitric 113020
 (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>YSI 600 XLM #11</u>		Read By: <u>PB</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>16:30</u>	<u>12</u>	<u>1</u>	<u>54.98</u>	<u>23.4</u>	<u>411</u>	<u>154.5</u>	<u>13.15</u>	<u>7.2</u>	<u>N/A</u>			
2	<u>16:33</u>	<u>15</u>	<u>1</u>	<u>"</u>	<u>23.3</u>	<u>410</u>	<u>155.2</u>	<u>13.21</u>	<u>7.2</u>				
3	<u>16:36</u>	<u>18</u>	<u>1</u>	<u>"</u>	<u>23.3</u>	<u>408</u>	<u>155.7</u>	<u>13.27</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: Paul Blair

Sampler Signatures: (Please PRINT)

M. A. Eckles

OFFICE USE ONLY

Reviewed for completion by: _____ Date: _____