# SUMTER COUNTY (CLOSED) LANDFILL QUARTERLY GROUNDWATER MONITORING REPORT Quarter II (May) 2014

Prepared for:

## SUMTER COUNTY SOLID WASTE DEPARTMENT SUMTER COUNTY, FLORIDA

Prepared by:

THE COLINAS GROUP, INC. 377 Maitland Avenue, Suite 2012 Altamonte Springs, Florida 32701

PO Prepared (19/14)
NO PG1113 (19/14)
STATE OF OR Rightage to Potts, Jr., P.G.
File De License No. 1113

June 2014

## Florida Department of Environmental Protection 3319 Maguire Boulevard, Suite 232, Orlando, Florida 32803-3767

## Ground Water Monitoring Report Certification Form Rule 62-520.600(11)

PART I GENERAL INFORMATION	
(1) Facility Name Sumter County Closed Class I Landfill	
Address 835 C.R. 529	
City Lake Panasoffkee	Zip 33538 County Surnter
Telephone Number (352)-793-3368	E-mail address jackey.jackson@sumtercountyfl.gov
(2) WACS_Facility 53008	
(3) DEP Permit Number 22926-004-SF	
(4) Authorized Representative's Name <u>Jackey Jackson</u>	Title Ass't. Director Public Works
Address 319 E. Anderson Avenue	
City Bushnell Zip	33513 County Sumter
Telephone Number (352)-793-0240	E-mail address jackey jackson@sumtercountyfl.gov
(5) Type of Discharge NA	
(5) Method of Discharge NA	
certify under penalty of law that I have personally examine document and all attachments and that, based on my inquiry of information, I believe that the information is true, accurate, and for submission of false information including the possibility of fin	ed and am familiar with the information submitted in this of those individuals immediately responsible for obtaining the document of any aware that there are significant penalties
Date Owner or Authorized Rep	presentative's Signature
PART II QUALITY ASSURANCE REQUIREMENTS	
Sampling Organization Name & DOH # The Colinas Group,	, Inc. / 870148G/3
Analytical Lab Organization DOH # _E83182	
Lab Name Environmental Conservation Laboratories, Inc.	
Address 10775 Central Port Drive, Orlando, FL 32824	
Phone Number (407) 826-5314	
E-mail Address mcolon@encolabs.com	

DER Form 62-520.900(2) Effective April 14, 1994 1/13/2009m

### THE COLINAS GROUP, INC.

**HYDROGEOLOGISTS & ENGINEERS** 

June 18, 2014

### Mr. F. Thomas Lubozynski, P.E.

Florida Department of Environmental Protection 3319 Maguire Boulevard, Suite 232 Orlando, Florida 32803-3767

Subj: Quarter II (May) 2014 Groundwater Monitoring Report Sumter County Closed Class I Landfill Sumter County, Florida WACS\_Facility ID #53008 FDEP Permit No. 22926-003-SF

Dear Mr. Lubozynski:

On behalf of Sumter County Board of County Commissioners, The Colinas Group, Inc. (TCG) herewith submits the Electronic Data Deliverable of the report prepared by TCG entitled:

Sumter County (Closed) Landfill Quarterly Groundwater Monitoring Report, Quarter II (May) 2014

The report was prepared and is submitted in satisfaction of part of the requirements of the Sumter County Closed Landfill Long-Term Care Permit.

If you have any questions concerning the contents of the report please do not hesitate to contact me at your convenience.

Very truly yours

THE COLINAS GROUP, I

Richard L. Potts, JATA 60F

Principal Consultant CORIO

rickpotts@cfl.rr.com

cc: Mr. Jackey Jackson (Sumter County)

Ms. Denise Warnock (Sumter County)

### SUMTER COUNTY (CLOSED) LANDFILL GROUNDWATER MONITORING REPORT SUMTER COUNTY, FLORIDA Quarter II (May) 2014

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### SUMTER COUNTY (CLOSED) LANDFILL QUARTERLY GROUNDWATER MONITORING REPORT QUARTER II (MAY) 2014

### INTRODUCTION

The Colinas Group, Inc. (TCG) has reviewed the groundwater monitoring well sampling and analytical results for the Quarter II (May) 2014 sampling event at the Sumter County (Closed) Class I Landfill near Lake Panasoffkee in Sumter County. The sampling event was completed in accordance with the quarterly water quality monitoring and reporting requirements of the closed landfill's Long-Term Care Permit #22926-003-SF.

### **SAMPLING EVENT**

The Quarter II 2014 sampling event at the Sumter County Landfill was completed during the period May 28 - 29, 2014. Sampling was performed by TCG in accordance with the Florida Department of Environmental Protection (FDEP) Standard Operating Procedures (SOP) for Field Activities. Water samples collected from the facility groundwater monitoring wells were tested for the required field parameters. Monitoring wells were purged and the groundwater discharge allowed to stabilize prior to sample collection.

The results of field testing were recorded as part of the Field Reports (Attachment 3) and are listed in Table I. All samples were preserved and stored as required prior to shipment to the analytical laboratory.

Laboratory analytical services were provided by Advanced Environmental Laboratories, Inc. (AEL) in accordance with the laboratory's NELAC and FDHRS Certification No. E53076, E84589, and E82574. The original analytical reports prepared by AEL are presented in Attachment 2 to this report.

Water table depth measurements in each facility groundwater monitoring well and piezometer were recorded on May 28, 2014. These measurements were used to construct the Groundwater Contour Map shown on Figure 1 (Attachment 1) for the uppermost receiving groundwater aquifer beneath the site. Depth to water table measurements and corresponding groundwater elevations are listed in Table II.

The closed landfill's Long-Term Care Permit (Permit No.22926-003-SF) was modified by the FDEP on December 20, 2013. Modifications to the facility monitoring plan included:

- Monitoring Well MW-4A was designated as a Detection Well (Specific Condition No.15);
- MW-4C and MW-4D were designated as new Compliance Wells (Specific Condition No.15);
- MW-4 and MW-4B were designated as Piezometers (Specific Condition No. 15);
- 4. The lateral Zone of Discharge boundary is expanded to the western and northern landfill property boundaries (Specific Condition No.14.a), and;
- 5. Identifies the Sumter County Closed Class I Landfill as an existing installation in accordance with Rule 62-520.520(1),F.A.C. (Specific Condition No. 14.b).

### **RESULTS**

### **Field Tested Parameters**

Results of field testing completed at groundwater monitoring wells for the Quarter II 2014 sampling event are summarized in Table I. Field tests were completed in strict accordance with the FDEP SOP requirements.

### pН

The field testing results indicate pH of groundwater in the uppermost aquifer was within the Florida Secondary Drinking Water Standards (SDWS) range (6.5 - 8.5 pH units) at seven (7) of the nine (9) groundwater monitoring wells sampled. The nearly neutral to slightly basic pH values measured are consistent across the landfill property and appear normal considering the monitoring well screen intervals at and near the top of carbonate rocks and sediments. One well (MW-4D) produced groundwater with a pH above the upper FDEP range at 9.05 pH units. One well (MW-11) reported pH slightly below the range at 6.22 pH units.

### Fluid Temperature

Temperature of each water sample was measured in the field immediately following discharge into the flow cell used to accept flow from the purging pump. Temperature measurements of groundwater from the monitoring wells varied through a relatively narrow range of 24.16 C to 27.46 C.

### **Dissolved Oxygen**

Dissolved oxygen (DO) exceeded the FDEP sampling guidance level of 20% saturation at four (4) of the nine (9) monitoring wells sampled, including the facility Background Well **MW-6A** and up-gradient well **MW-8**.

### Specific Conductance

Specific conductance of groundwater samples collected during this sampling event are included in Table I. Specific conductance values varied through a relatively narrow range of 242 umhos/cm to 979 umhos/cm.

### **Turbidity**

The FDEP recommends attainment of turbidity values less than 10 to 20 NTUs in groundwater samples obtained from monitoring wells. As shown in Table I, groundwater samples collected had measured turbidity values less than 20 NTUs at eight (8) of the nine (9) wells. New monitoring well **MW-4D**, sampled for the second time this quarter, produced groundwater with turbidity slightly exceeding 20 NTUs.

### Regulatory Exceedances

A summary of groundwater laboratory analytical results that exceeded the regulatory level for a particular parameter in the Quarter II 2014 sample set is presented in Table III. As shown, five (5) constituents were reported at specific monitoring wells at concentrations that exceed applicable regulatory levels. Exceeding parameters were: Aluminum, iron, manganese, nitrate nitrogen and total dissolved solids (TDS).

### **Aluminum**

Aluminum was reported above the 200 ug/l SDWS MCL at new monitoring well **MW-4D** at 2,540 ug/l and well **MW-9A** at 210 ug/l.

#### Iron

Dissolved iron was detected at a concentration above the SDWS MCL of 300 ug/l at monitoring well **MW-9A** at 1,500 ug/l. Iron was not detected above the laboratory minimum detection limit of 38 ug/l at six (6) wells.

### **Manganese**

Manganese was reported at a concentration above the SDWS MCL of 50 ug/l at monitoring well **MW-9A** at 200 ug/l. Manganese was detected at one other monitoring well **(MW-10)** at 12.0 ug/l.

### **Nitrate Nitrogen**

Nitrate was reported above the Florida Primary Drinking Water Standards (PDWS) MCL (10 mg/l) at monitoring well **MW-4A** at 11 mg/l. Remaining monitoring wells reported nitrate values ranging from 0.55 mg/l (**MW-9A**) to 6.7 mg/l at new Compliance Well **MW-4C**.

### Total Dissolved Solids (TDS)

TDS concentration was reported nominally above the 500 mg/l SDWS MCL at monitoring well **MW-9A** at 530 mg/l.

No other exceedance of a parameter regulatory maximum contaminant level was reported in the laboratory analytical results for samples from groundwater monitoring wells at the Sumter County Closed Landfill.

### Other Significant Detected Parameters

**Chloride** concentrations reported for seven (7) of the nine (9) monitoring wells, including facility background monitoring well **MW-6A**, appear consistent between individual wells and typical for natural shallow groundwaters in Florida. Chloride concentrations at monitoring wells **MW-4A** and **MW-9A** (20 mg/l - 21 mg/l) appear slightly elevated compared to the other wells. The SDWS MCL for chloride in groundwater is 250 mg/l.

Gross alpha and/or Radium 226+228 are reported at concentrations elevated above background levels and somewhat approaching PDWS MCLs (15 pCi/l and 5 pCi/l, respectively) at monitoring wells MW-9A, MW-10 and MW-11.

**Sodium** appears slightly elevated at monitoring wells **MW-4A** and **MW-9A** (20.1 mg/l - 22.5 mg/l) as compared to background and other downgradient monitoring wells. The PDWS MCL for sodium is 160 mg/l.

### **SUMMARY AND CONCLUSIONS**

Chemical characteristics of groundwater monitored at the Sumter County Closed Landfill are reported for the Quarter II (May) 2014 sampling event. Exceedances of constituent regulatory maximum contaminant levels (MCLs) are reported at specific monitoring wells for the Secondary Drinking Water Standards (SDWS) parameters: Aluminum, Iron, manganese and total dissolved solids (TDS). One well reported an exceedance of the Primary Drinking Water Standards (PDWS) MCL for nitrate nitrogen in groundwater,

Elevated **dissolved oxygen** (DO) levels were measured at four of the nine groundwater monitoring wells sampled, including background monitoring well **MW-6A** and up-gradient well **MW-8**. These wells routinely produce groundwater with elevated DO levels and are considered to represent natural groundwater conditions. An elevated (alkaline) groundwater **pH** outside the SDWS pH range is reported at new Compliance Well **MW-4D**.

**Aluminum** was reported well above the SDWS at new Compliance Well **MW-4D**. Recently added to the landfill monitoring plan in December 2013, this quarter is the second sampling event at this well. Aluminum concentrations, considered a likely artifact of well construction and elevated turbidity, are expected to decline over time with continued well development by pumping to collect water samples.

Dissolved **iron** above the SDWS MCL was reported at detection monitoring well **MW-9A**. **Manganese** was also reported above the SDWS MCL at **MW-9A**. Both iron and manganese occur naturally in sediments and carbonate rocks penetrated by the monitoring wells.

**Nitrate nitrogen** was reported slightly above the PDWS MCL at Detection Well **MW-4A** at 11 mg/l. The MCL for nitrate in groundwater is 10 mg/l. Compliance wells **MW-4C** and **MW-4D**, positioned down-gradient from **MW-4A**, report nitrate below the MCL and slightly above elevated background levels consistently reported at Background Well **MW-6A**.

**TDS** was reported slightly above the SDWS provisional MCL (500 mg/l) at well **MW-9A** at 530 mg/l. Past analytical data from the monitoring network indicates that dissolved calcium carbonate accounts for a large part of the TDS load in groundwater at the landfill. Calcium carbonate is not a regulated compound in groundwaters.

Considering water quality results from this and prior routine monitoring events and corrective actions investigations at the landfill, we offer the following conclusions regarding compliance with regulatory requirements in accordance with the closed landfill's long-term-care permit:

- 1. With the lone exception of **nitrate-nitrogen** at Detection Well **MW-4A**, monitoring parameters exceeding respective MCLs are solely constituents regulated under the Florida Secondary Drinking Water Standards in Chapter 62-550, F.A.C. Monitoring parameters that have historically, from time to time, exceeded secondary drinking water standards and are reported above standards in the current quarterly sampling event include aluminum, iron, manganese and total dissolved solids.
- 2. The Sumter County Closed Class I Landfill is an "existing installation" as defined in Rule 62-520.200(10), F.A.C. and is exempt from compliance with secondary drinking water standards parameters at the facility's property boundary in accordance with the provisions of rule 62-520.520(1), F.A.C. and Specific Condition No.14b of the landfill's long-term care permit.
- 3. **Nitrate** concentrations in samples from Detection Well **MW-4A** continue to be reported nominally above the Florida Primary Drinking Water Standards MCL. Down-gradient Compliance Wells **MW-4C** and **MW-4D** continue to report nitrate below the MCL and only slightly above elevated nitrate values consistently reported for Background Well **MW-6A**.

\* \* \* \* \*

TABLE I
FIELD PARAMETER RESULTS SUMMARY
SUMTER COUNTY (CLOSED) LANDFILL
SUMTER COUNTY, FLORIDA
Quarter II (May) 2014

Sampling Point	Temp. (C)	Dissolved Oxygen (mg/l)	pН	Specific Conductance (umhos/cm)	Turbidity (NTU)
MW-2	26.48	6.25	6.87	242	0.42
MW-4A	26.63	0.91	7.14	646	3.67
MW-4C	27.46	1.32	7.35	489	6.14
MW-4D	26.14	2.79	9.05	371	21.4
MW-6A	24.57	7.23	7.86	317	12.0
MW-8	24.16	5.31	7.46	336	0.31
MW-9A	25.11	0.63	6.50	979	10.8
MW-10	24.74	0.74	6.99	556	2.52
MW-11	26.11	1.53	6.22	358	3.92

Notes: **Bold** lettering indicates: Exceedance of FDEP 20% saturation dissolved oxygen limit Exceedance of secondary standards pH range (6.5 - 8.5)

Exceedance of FDEP-recommended turbidity (20 NTU)

TABLE II **SUMMARY OF GROUNDWATER LEVELS** 

### **SUMTER COUNTY (CLOSED) LANDFILL SUMTER COUNTY, FLORIDA** Quarter II (May) 2014

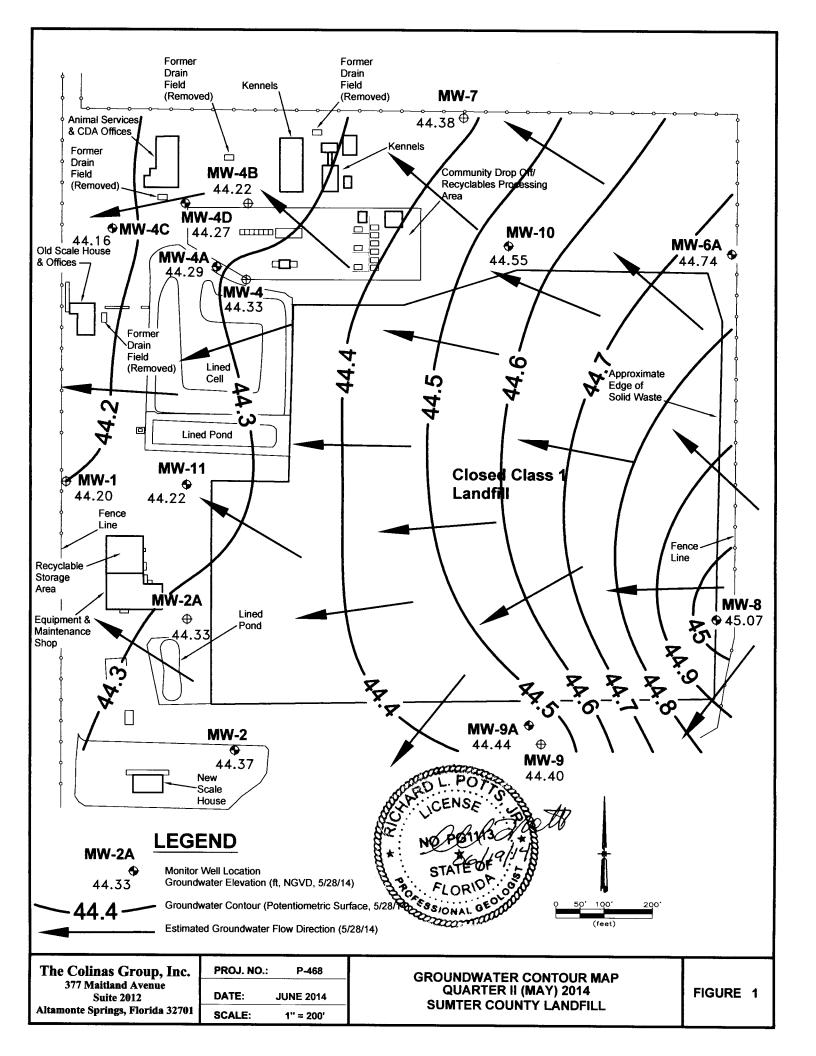
Well No.	MP Elev. <u>1</u> / (ft. +NGVD)	Depth to Water <u>₂</u> (ft MP)	Groundwater Elevation (ft. +NGVD)
MW-1	70.10	25.90	44.20
MW-2	68.96	24.59	44.37
MW-2A	71.98	27.65	44.33
MW-4	70.33	26.00	44.33
MW-4A	75.49	31.20	44.29
MW-4B	73.49	29.27	44.22
MW-4C	70.64	26.48	44.16
MW-4D	70.20	25.93	44.27
MW-6A	77.48	32.74	44.74
MW-7	72.93	28.55	44.38
MW-8	68.63	23.56	45.07
MW-9	72.62	28.22	44.40
MW-9A	75.14	30.70	44.44
MW-10	68.14	23.59	44.55
MW-11	70.02	25.80	44.22

Notes:  $\frac{1}{2}$  Measuring Point is top of PVC well casing.  $\frac{2}{2}$  Water levels recorded on May 28, 2014.

## TABLE III SUMMARY OF LABORATORY RESULTS SUMTER COUNTY (CLOSED) LANDFILL QUARTER II (May) 2014

Parameter	units	MW-2	MW-4A	MW-4C	MW-4D	MW-6A	MW-8	MW-9A	MW-10	MW-11	MCL
Ammonia	mg/l	BDL	BDL	BDL	BDL	BDL	ПДВ	0.72	BDL	BDL	2.8
Aluminum	ug/l	BDL	BDL	90.3	2,540*	BDL	TO8	359 <sub>*</sub>	BDL	126	200
Antimony	ug/l	BDL	BDL	BDL	BDL	TOB	TOB	TOB	BDL	BDL	မွ
Cadmium	ug/l	BDL	BDL	BDL	BDL	TOB	ПОВ	TOB	BDL	2.28	ĸ
Chloride	mg/l	2.7	20	11	5.9	0.7	6.0	21	5.7	1.6	250
Chromium	ug/l	BDL	BDL	BDL	6.86	TOB	BDL	PDF	BDL	HOR	100
Fluoride	l/gm	0.10	BDL	0.10	0.09	0.04	0.04	0.13	60.0	0.09	4
Gross Alpha	pCi/l	2.3 ± 1.1	1.9±1.0	6.4 ± 1.1	2.8 ± 1.4	1.1 ± 0.9	1.7 ± 1.3	8.3 ± 2.0	9.6 ± 1.2	5.9 ± 1.8	15
Iron	l/gn	BDL	BDL	BDL	87.1	BDL	BDL	1,520*	BDL	BDL	300
Lead	ug/l	BDL	BDL	Пав	BDL	708	BDL	BDL	BDL	BDL	15
Manganese	l/gn	BDL	BDL	BDL	BDL	TOB	BDL	200*	12.0	BDL	50
Mercury	l/gn	BDL	BDL	HOR	BDL	TOB	BDL	0.0933	BDL	BDL	2
Nitrate, as N	mg/l	1.2	11	6.7	5.5	5.1	1.6	0.55	2.1	4.8	10
Ra226+Ra228	pCi/I	1.0 ± 0.3	0.7 ± 0.3	0.9 ± 0.3	0.2 ± 0.2	0.4 ± 0.2	0.7 ± 0.2	3.3 ± 1.1	1.9 ± 0.9	3.7 ± 1.0	5
Silver	l/gu	BDL	BDL	BDL	100						
Sodium	mg/l	2.26	20.1	12.1	14.7	3.08	4.59	22.5	6.25	7.33	160
TDS	mg/l	130	350	250	220	170	170	530*	290	190	200
Thallium	l/ɓn	BDL	HOF	Пав	BDL	BDL	BDL	BDL	BDL	BDL	2

Notes: 1/. BDL means below laboratory minimum detection limit 2/. Bold lettering indicates result exceeds MCL / 62-777, F.A.C. GCTL 3/.\* Sumter County Closed Landfill is exempt from compliance with Florida Secondary Drinking Water Standards MCLs



FIELD LOG Well Wooder Levels

	P-468	NAME:	Dale Clayto
PROJECT NAME: PROJECT	Sunter Co. Landfill	DATE:	5/28/14
	Suntarville, Pe		, ,

TIME	COMMENTS
	Well 1st
	# (ft.btoc)
	1111-1 25-90'
	MW-2 24.59'
	MW-2A 27,65'
	MW-4 26-00'
	MW-4A 31.20'
	MW-4B 29.27'
	11W-4C 26.48'
	101-40 25-93'
	MW-6A 32.74"
<del></del>	10 38.55°
	MW-8 23.56'
	MW-9 28.2)
	140-94 30-70'
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SITE						SITE					
	Sumter Co	ounty Land	fill			LOCATION:	Sumter	ville, FL		. ,	
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		1 Equip v	ol =		llons + (	900 gallo	ns/foot X	feet	) + .1 <b>25</b> as	illons =	gallons
	MP OR TUBINO	3	FINAL PUME	OR TUBING		PURGIN	IG	PURGIN		TOTAL VOLUM	
DEPTHIN	WELL (feet):	CUMUL.	DEPTH IN W	/ELL (feet): /	~26	INITIAT	ED AT: 03	ENDED !	AT: 1106	PURGED (gall	ons): 2. >9
TIME	VOLUME	VOLUME	PURGE	TO	pH (atamatan)	TEMP.	COND.	DISSOLVED	TURBIDITY	COLOR	ODOR
	PURGED (gallons)	PURGED	RATE	WATER	(standard units)	(°C)	(uS/cm)	OXYGEN (mg/L)	(NTUs)	(describe)	(describe)
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TINU	18	145	189	34.34.	4.88	26.49	245	6.27	10.4)	Clar-	None
1106	18	2.39	600	316211	6.07	36.47	244	6.26	10.39	Clar.	None
	10	0.17	1	34.14	Q-0-1	96.13	<del>249</del>	6.25	10.47	Clear	None
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CODE	RS	CODE	VOLUME	USEL	) AD	DED IN FIEL		pH	METHOD		CODE
MW-2	2	PE	1 Ltr	HN03	,	41			GrossAlpha.		
"	1					None			RA226RA228		APP
**	1	PE	250 mL 250 mL	H2S0 HN03		None			Total Ammoni	ia	APP
46	1	PE				None			Metals Chlorido Elveri		APP
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	are ci	-660	المامار ف	10 most	الاما رم	" have	1401	DO . A	el other	para	refers
	34	able or	1 1 10	nge.						. *	•
				•							
Notes: 1) Us	sed a graduated	5 gallon bucket	and timed to n	neasure purae	volumes						1
2) Pa	аскед samples с	on ice immediate	ly upon collec	tion							1
MATERIAL		AG = Amber Gl	<del></del>	Clear Glass;	PE = Poly	rethylene;	PP = Polypro	opylene; S = Si	licone; T = Teflor	n; O = Other	r (Specify)
SAMPLING/I EQUIPMENT		PP = After Perisi	altic Pump;	B = Bailer		Bladder Pum	p; ESP	= Electric Subme		PP = Peristaltic	
	above do not c	PP = Reverse F			SM = Straw	Method (Tub	ing Gravity D		Vacuum Trap;	O = Other (St	
	- LANGE OF HOLE	जन्म अस्ति । जन्म ।	หางหาเสียงก (90	ן urea by Cha	DIEF 62-160,	. F.A.C.					

<sup>2. &</sup>lt;u>STABILIZATION CRITERIA FOR RANGE VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)</u>H: ± 0.2 units; Temperature: ± 0.2 degrees C; Specific Conductance: ± 5%; Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2), optionally, ± .02 mg/L or ± 10% (whichever is greater); Turbidity: all readings ≤ 20 NTU, optionally ± 5 NTU or ± 10% (whichever is greater)

SITE					SITE					
	Sumter Co	unty Lanc	ifili			Sumter	ville, FL			
WELL NO:	MW-4A			SAMPLE ID:				DATE: 5	29/14	
r				F	URGING D					
WELL 2"		TUBING 31		WELL SCREEN		STATIC D	EPTH31.24	PURGE PUMP T		
DIAMETER WELL VOL	(inches): UMF PURGE:	DIAMETER (	(inches):		eet to feet STATIC DEPTH	TO WATE	R (feet):	OR BAILER: ES	<u>SP</u>	
only fill out	if applicable)	· WELL TOLK	DIVIC - (101AL	. WELL DEFIN	STATIC DEPTH	IO WAIER)	X WELL GAPA	ICHY		
			= (	45.23' feet		feet	) X	gallons/foot	=	gallons
CONTY FILL OUT	NT VOLUME PU t if applicable)	RGE: 1 EQUI	PMENT VOL. =	PUMP VOLUME	+ (TUBING CAPAC	ITY X	TUBING LENGT	H) + FLOW CELL	VOLUMEX 3	1.245
()	in applicable)	1 Equip V	/ol = .02 d	allons + ( .006	gallons/foot X	45'	feet) + 1/2	gallons =	1415	gallons
	MP OR TUBINO		FINAL PUMP	OR TUBING	PURG	NG .	PURCINI	G	TOTAL VOLUM	IE
DEPTH IN	WELL (feet):	CUMUL.	DEPTH IN W	ELL (feet): DEPTH	(O INITIA	TED AT: [[	M ENDED A	AT: 1126	PURGED (gallo	ins): 4.50
TIME	VOLUME	VOLUME	PURGE	TO cto	ndard TEMP.	COND.	DISSOLVED	TURBIDITY	COLOR	ODOR
	PURGED (gallons)	PURGED (gallons)	(gpm)		nits) (°C)	(uS/cm)	OXYGEN (mg/L)	(NTUs)	(describe)	(describe)
1127	3.50	3.10	125	31.38 7	14 2643	650	1118	5.44	Class	2/11/2
1124	· 5	4.00	125	3).38.20	4 26-58	648	1.02	4 08	Cloor	None
1126	.5	4.50	125	31.38 7.1	4 26.63		0.51	3:65	Maar	None
										/
			-					+		
						<del> </del> -		1/2 5/		
						<del> </del>		NO SI	ear	
WELLCAD	ACITY (Gallons	Por Footh A	75" - 0.00.	I" = 0.04; 1.25"						
TUBING IN	SIDE DIA. CAP	ACITY (Gal./Ft.	.): 1/8" = 0.00;	1" = 0.04; 1.25" 06; 3/16" = 0.00	= 0.06; 2" = 0.1 14; 1/4" = 0.00			5" = 1.02; 6" 0.006; 1/2" = 0		= 5.88 = 0.016
				S	AMPLING D	ATA				
	BY (PRINT) / AF		SA	MPLED(S) SIGNA	TURES:		SAMPLING	1127	SAMPLING /	44/1
	aytor, Colir	nas Group			acks	$\bigcirc$	INITIATED AT:	110	ENDED AT:	272
PUMP OR T	TUBING WELL (feet):	N4		OW RATE (mL per	minute): < 250	ml	TUBING	DE		
	····			LD-FILTERED:		TER SIZE:	MATERIAL CO. μm			
FIELD DEC	ONTAMINATIO		Filt	ration Equipment T				DUPLICATE:	Y (N	/ !
		ONTAINER ICATION			SAMPLE PRESE	RVATION		INTENDED	5/	MPLING
SAMPLE II	D #	MATERI		PRESERVATIV	E TOTAL V	OJ.	FINAL	ANALYSIS ANDA	1	UIPMENT
CODE	GONTAIN RS	IE AL CODE	VOLUME	USED	ADDED IN FIE		pН	METHOD		CODE
MW-4A	2	PE	1 Ltr	HN03	None			GrossAlpha,	<del></del>	ESP
4	1	PE	250 mL	H2S04	None			RA226RA228		
66	1.	PE	250 mL	HN03	None			Total Ammon Metals	la	ESP ESP
51	1	PE	500 mL	None	None			Chloride,Fluori	de,	ESP
REMARKS:				1			L	Nitrate, TDS	1	
1108:	Inserto	1552	sp an	I dodic-	- المراجع حل	Ps 1	6 1	~ 40. eta	7.	106
	bumb.	a L . 1 =	- 0 00.		1-117	1 C TU	out Brien	~ 70 346	ic and	started
			ファル		- 5			. 1		
						` - <i>l</i> - <i>l</i> - <i>l</i>	J 7 117		DU 100	randi
	WL 31.3			m, GW	13 70,00	104	-(3 N)	W2. 10 111	# · Y	
1114:	WL 31.3	8'at.		m, 6W	13 40,00	1004	-(3 M)	W3. 10 111	y y-	
1114:	WL 31.3 it clean	sup.	2598	·					•	
1114:	WL 31.3 it clean	sup.	2598	·					•	
1114:  140:	WL 31.3 it clear WL 31.3	18'at. 18'at.	259F	om, dra	wdown	is sfo	66. TI	u-6: dit	ghas a	
1114: 1130: 1	WL 31.3 it clear WL 31.3	18'at. 18'at.	259F	om, dra	wdown	is sfo	66. TI		ghas a	
1114:  140:	WL 31.3 it clear WL 31.3	18'at. 18'at.	259F	om, dra	wdown	is sfo	66. TI	u-6: dit	ghas a	
1114: 1130: 1	WL 31.3 it clear WL 31.3	18'at. 18'at.	259F	om, dra	wdown	is sfo	66. TI	u-6: dit	ghas a	
1114:   }&	WL 31.3 it clear wL 31.3 to 13 /	8'at, sup. 38 at. VTUS.	259P 2598 All of	om dra Kerpan	wdown ameter	is sfo	66. TI	u-6: dit	ghas a	
1114:   }                                 	WL 31.3 it clear WL 31.3 to 13 /	8'at, sup. 38 at. VTUS.	259P 2596 All of a et and timed to a tely upon collect	Pm dra Kerpan Measure purge vol	wdown ameter umes	is sfo	66. TI	u-6: dit	ghas a	
Notes: 1) UI 2) P	WL 31.3 it clear WL 31.3 to 13 sed a graduated Packed samples CODES:	8'at, Sup. 38 at. Vrus. Urus. 15 gallon bucke on ice immedia AG = Amber C	AT 96 AT 06 AT 106 et and timed to . tely upon collecting to . Glass; CG =	Per dra Rer Para measure purge vol tion Clear Glass; PE	undown ameter umes = Polyethylene;	PP = Polyp	66 · Ti 51a66 c	N-6: dit Orina	n; 0 = Othe	Aroppea
	WL 31.3 i+ clear WL 31.3 i+0 13 / sed a graduated cacked samples codes: //PURGING A	8'at. Sup. 38 at. VTUS. 15 gallon bucke on ice immedia AG = Amber ( PP = After Pen	AT 96 AT 06 AT 106 et and timed to . tely upon collecting to . Glass; CG =	measure purge volction Clear Glass;  B = Bailer;	wdown ameter umes	PP = Polyp	oble · Ti Stable c ropylene; s = s P = Electric Subm	N-6: dit Orina	ghas e	Aropped r (Specify)

Notes: 1. The above do not constitute all the information required by Chapter 62-160, F.A.C.

2. <u>STABILIZATION CRITERIA FOR RANGE VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)H: ± 0.2 units; Temperature: ± 0.2 degrees C; Specific Conductance: ± 5%; Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2), optionally, ± .02 mg/L or ± 10% (whichever is greater); Turbidity: all readings ≤ 20 NTU, optionally ± 5 NTU or ± 10% (whichever is greater)</u>

SITE NAME:	Sumter Co	untu l and	ıcıı			SITE					
WELL NO:	Sumter Co MW-4C	unty Land	IFEEE	1		LOCATION:	Sumter	ville, FL	- 7		
VVELL IVO.	MINATO			SAMPLE	ID: MW				DATE: 5	28/14	
WELL 2"	, DAC		(01)			GING DA					
DIAMETER		TUBING .3		DEPTH:	REEN INTE		STATIC D	EPTH26.48	PURGE PUMP T		
WELL VOL	.UME PURGE:	DIAMETER (	Inches): JME = (TOTA	L WELL DEP	TH - STA	feet	TO WATER	X WELL CAPA	OR BAILER: ES	SP	1
only fill out	t if applicable)		1 ///	4a.14		no bei iii i	O WAILN)	A WELL CAPA	CITY		
EQUIDAC:	UT VOLUME BU		= (	44.622	_feet -		feet	) X	gallons/foot	<del>-</del>	gallons
(only fill out	NT VOLUME PU t if applicable)	RGE: 1 EQUIF	PMENT VOL.	= PUMP VOL <i>1</i>			ry x	TUBING LENGT	H) + FLOW CELL	VOLUME 3	
		1 Equip \	/ol		nllons + ( 👩	i	ns/foot X	SY feet)	+ <b>.125</b> g		:17962
INITIAL PU	MP OR TUBING	, , ,	FINAL PUM	PORTUBING	, ,	PURGIN		PURGING		rallons = 26 TOTAL VOLUN	
DEPIHIN	WELL (feet):	CUMUL.	DEPTH IN V	VELL (feet): DEPTH	<u>~37</u>	INITIATI	DAT: 13	ENDED A		PURGED (galk	
TIME	VOLUME	VOLUME	PURGE	TO	pH (otnodowa	TEMP.	COND.	DISSOLVED	TURBIDITY	COLOR	ODOR
	PURGED (gallons)	PURGED (gallons)	(gpm)	WATER	(standard units)	(°C)	(uS/cm)	OXYGEN (mg/L)	(NTUs)	(describe)	(describe)
1231	1.18	1,28	608	Ac-69	7.36	30.00	100			<del> </del>	
1333	1/6	1.44	.03	26-69	7.35	27.29	495	1.40	19.76	Clas-	10pue
1335	16	1.60	.08	26.69	3 3 4	27.46	491	1.33	701	Class	None
					<del></del>	7.70	701	1130	6:14	Clar	None
									<u> </u>	<del> </del>	
						ļ			NO 5V	roan	
		<del></del>									
									<del> </del>		
WELL CAP	ACITY (Gallons	Per Foot): 0.7	5" = 0.02;		1.25" = 0.06	); 2" = 0.16	3" = 0.3	7; <b>4"</b> = 0.65;	5" = 1.02; 6"	= 1.47; 12"	= 5.88
IORING IN	SIDE DIA. CAPA	ACITY (Gal./Ft.,	): 1/8" = 0.00	06; 3/16"		1/4" = 0.0026		0.004; 3/8" =			= 0.016
SAMPLED.	BY (PRINT) / AF	EII IATIONI:	1 64	MONTH OF THE		LING DA	ITA				
Dale Cla	aytor, Colir	riciation. Nas Group.	Inc. SA	MPHER(S) S	GNAPOHES		_	SAMPLING	336	SAMPLING /	351
PUMP OR 1				MPLE PUMP	July,		$\subseteq$	INITIATED AT:		ENDED AT:	01
DEPTH IN	WELL (feet):	~37			L perminute	بر < 250 i	กโ	MATERIAL COL	E: PE		
FIELD DEC	ONTAMINATIO	V: (V) NS	N FIE	LD-FILTERE	D: Y/A			II m			7
	SAMPLE C	()	Sport Fill	tration Equipm	ent Typle				DUPLICATE:	YN	
	SPECIFI		~~ /		SAM	PLE PRESER	VATION		INTENDED		4451.446
SAMPLE II	CONTAIN	MATERI E AL	VOLUME	PRESERV	ATIVE	TOTAL VO		FINAL	ANALYSIS AND/		MPLING UIPMENT
CODE	RS	CODE	VOLUME	USE		DED IN FIEL		pH	METHOD		CODE
MW-4C	2	PE	1 Ltr	HNO	3	None			GrossAlpha.		
	1	PE				None			RA226RA228		ESP
66	1	PE	250 mL 250 mL	H2S0		<u>None</u> None			Ammonia		ESP
"	1	PE	500 mL						<u>Metals</u> Chloride,Fluorid	40	ESP
REMARKS:			300 IIIL	Non	е	None			Vitrate, TDS		ESP
nciviarno.	Sak dad	ontad.	lun De	1 6	_ ,	37.		1-1	1.		
317.	JET WEAR	CATED 1	14" 72	+240121	3 ort N	396+	oc on	a started	lpumpa	1 :08	Jon.
13a1:	WL 26	.69 at	-08	apm.	Gw :	5 4	Sala	100 4	Tuis. W	•	
.,	حدره مل	-,	ت ک	/	( ) ,	- 1-00	ord of	7 67 10	Tuis - W	illova	Pura
	to cles	rof uf	, ر						_		, , , , , ,
1330	INC 2	la.100 .	-1 -0	- 0	1-	,					
770.		E. C	थर ग्ध	gpm	1 01	awdi	win is	Stable	· All pa,	mete	2-0
	5-1061-	e or in	rang	ve'					,	/	,, _
				0							
Matae: 4111-	and a amalusts of	E galla- to state	and the state		_						
2) Pa	sed a graduated acked samples o	ə gallori bucket In ice immediati	and timed to i	measure purg ction	e volumes						
MATERIAL (		AG = Amber G		Clear Glass;	PE = Poli	rethylene;	PP = Polypro	nnvione: E - Cit	cono: T = T =		
SAMPLING/		PP = After Peris		B = Baile		Bladder Pum					
EQUIPMENT		PP = Reverse	Flow Penstaiti	c Pump;	SM = Straw	Method (Tub	יי, באר ing Gravity D	= Electric Submerrain); VT = V	rsible Pump;	PP = Peristattic O = Other (Sp	
				quired by Cha					11UD.	County (A)	

<sup>2. &</sup>lt;u>STABILIZATION CRITERIA FOR RANGE VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)</u>H: ±0.2 units; Temperature: ±0.2 degrees C; Specific Conductance: ±5%; Dissolved Oxygen: all readings ≤20% saturation (see Table FS 2200-2), optionally, ±.02 mg/L or ±10% (whichever is greater); Turbidity: all readings ≤20 NTU, optionally ±5 NTU or ±10% (whichever is greater)

NAME: Sumter County La WELL NO: MW-4D	ie:11		SITE					
WELL NO: MW-4D	natili		LOCATION:	Sumter	/ille, FL			
		SAMPLE ID: MV				DATE: 5	28/10	/
		PUI	RGING DA	TA			102117	
WELL 2" PVC TUBING	.3/8"	WELL SCREEN IN	·		PTH25-93	PURGE PUMP	TYPE	
DIAMETER (inches): DIAMETE	R (inches):	DEPTH: feet		TO WATER	R (feet):	OPRALED E		
WELL VOLUME PURGE: 1 WELL VO only fill out if applicable)	DLUME = (TOTA	AL WELL DEPTH - ST	TATIC DEPTH TO	WATER)	X WELL CAPA	CITY		
only im out it applicable)	= (	40.83						
EQUIPMENT VOLUME PURGE: 1 EQ	UIPMENT VOL.	= PUMP VOLUMF + (T)	URING CAPACIT	feet) Y X		gallons/foo H) + FLOW CELL	xt =	gallons
(Only IIII Out II applicable)		$oldsymbol{C}$	10026		TOBING LENG!	H) + FLOW CELL	VOLUME	
1 Equip	Vol	= 92 Dgallons + (	008 Deallon	s/foot X	45 feet)	+ .125	galions =	galions
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): ~35	FINAL PUM	P OR TUBING	r PURGING	3	PURGINO	3	TOTAL VOLU	WE ,
CUMUL		VELL (feet): ~ 3 (	J INITIATE	DAT: <b>[4]</b>	ENDED A	17.1536	PURGED (gall	ons): 6. 🕽
TIME VOLUME VOLUME		TO PH	TEMP.	COND.	DISSOLVED	TURBIDITY	COLOR	ODOR
(galions) (galions		WATER	0 (°C)	(uS/cm)	OXYGEN (mg/L)	(NTUs)	(describe)	(describe)
1532 6-40 6.4		25.92 9.03	1/ 20	~ ~ 7		+	<del> </del>	
1534 .16 6-5	· · · · · · · · · · · · · · · · · · ·	25.97 9 00		378	3.81	19.3	Clear	Mone
1536 16 (2)	.08			351	326	17.5	Cagar	None
6.70		25-97 9.03	5 36.14	2 /1	a. 19	dey	Clear	None
						<del> </del>		
			<del>- </del>			+	+	
							<del> </del>	
						1/05	hean	-
						1000		
WELL CAPACITY (Gallons Per Foot):	0.757 - 0.00	111 0.01						
TUBING INSIDE DIA. CAPACITY (Gal.)	0.75° = 0.02; Ft.): 1/8" = 0.0i	1" = 0.04; 1.25" = 0.	06; 2" = 0.16;	3" = 0.37				= 5.88
			PLING DA		0.004, 3/8 =	0.006; 1/2" =	0.010; 5/8"	= 0.016
SAMPLED BY (PRINT) / AFFILIATION:	SA	MPLER SURIGNATUR		IA I				
Dale Claytor, Colinas Grou	ip, Inc.	MINI				1537	SAMPLING	1227
PUMP OR TUBING		MPLE PUMP	The second		INITIATED AT: TUBING		ENDED AT:	
DEPTH IN WELL (feet):		OW RATE (my per minu	ite): < 250 m	ıL.	MATERIAL COL	DE: PE		
FIELD DECONTAMINATION: Y	, WY FI	LD-FILTERED Y	N FILTE	R SIZE:	um			44
SAMPLE CONTAINER	Palu FI	tration Equipment Type:				DUPLICATE:	Y (N	)
SPECIFICATION	,	SA	MPLE PRESERV	ATION		0.754.55		
SAMPLE ID # MATE		PRESERVATIVE	TOTAL VOL			INTENDED ANALYSIS AND		AMPLING DUIPMENT
CODE CONTAINE AL	F VOLUME		ADDED IN FIELD		FINAL pH	METHOD		CODE
MW-4D						C		
	1 Ltr	HN03	None			GrossAlpha, RA226RA228		ESP
PE PE	250 mL	H2S04	None			Ammonia		ESP
	250 mL	HN03	None			Metals		ESP
" 1 PE	500 mL	None	None			Chloride,Fluori	ide,	ESP
REMARKS:			<del></del>			Nitrate, TDS		
	d 1/4 · p	E tubras	at ~ 3	r. xL		cha 1 = 4	10 -	, 40
1412: Set ded: cated	•	,	-c, -c )	) One	ic and	2700/100	pump	at 108
141d! Set ded: cafe								
1412: Set dedicates								
1421: WL 25-28'	at .08	apm G	3 -5 ex	4	ale to	1.10		1 6
1441: WL 25-98'	at .08	apm G	3 -5 ex	4	ale to	1.10	aised-	Lubiyo
1441: UL 25-98'6	at,08 foc. T	gpm (Gi	J is ex	trem	ialy fu	rbid. Re		
1441: WL 25-98'6 to N 30'6 1441: WL 25-98' a	at,08 Hoc. T	gpm (Gi urbidity)	J is ex	trem	ialy fu	rbid. Re		
1441: WL 25-98'6 to N 30'6 1441: WL 25-98' a	at,08 Hoc. T	gpm (Gi urbidity)	J is ex	trem	ialy fu	rbid. Re		
1421: WL 25-98's fo N 30'6- 1441: WL 25-98'a NTUS. Cont	at,08 foc. T t.08 g	gpm (Gu urbidity)	is at 10. Widown	trem 8NTV is si	ialy fu is. GW hable:	rbid, Re ismilku Turbid	y white ity is .	n+ 75
1421: WL 25-98's for 30'6- 1441: WL 25-98'a NTUS. Cont	at,08 foc. T t.08 g	gpm (Gu urbidity)	is at 10. Widown	trem 8NTV is si	ialy fu is. GW hable:	rbid, Re ismilku Turbid	y white ity is .	n+ 75
1441: WL 25-98 a NTUS. Conti 1441: WL 25-98 a NTUS. Conti	at, 08 foc. T t.08 g	gpon (Gu urbidity) pon drae	.) is ex is at low widown	trem SNTV is so	ialy fulls. GW hable.	rbid. Reismilke ismilke Turbid	y white	n+ 75
NTUS. CONT. 1501: WL 25-97 at	at, 08 foc. T t.08 g	gpon (Gu urbidity) pon drae	.) is ex is at low widown	trem SNTV is so	ialy fulls. GW hable.	rbid. Reismilke ismilke Turbid	y white	n+ 75
1441: WL 25-98 a NTUS. Conti 1441: WL 25-98 a NTUS. Conti	at, 08 foc. T t.08 g	gpon (Gu urbidity) pon drae	.) is ex is at 10 widown	trem SNTV is so	ialy fulls. GW hable.	rbid. Reismilke ismilke Turbid	y white	n+ 75
1441: WL 25-98 a NTUS. Conti 1441: WL 25-98 a NTUS. Conti	at, 08 foc. T t.08 g	gpon (Gu urbidity) pon drae	.) is ex is at 10 widown	trem SNTV is so	ialy fulls. GW hable.	rbid. Reismilke ismilke Turbid	y white	n+ 75
1441: WL 25-98 a  1441: WL 25-98 a  NTUS. CONT  1501: WL 25-97 at  3.96 mg/L a  Notes: 1) Used a graduated 5 gallon buc  2) Packed samples on ice immed	at, 08 Hoc. T +.08 g nuing, 08 g H-08 g he of pH ket and timed to lately upon collect	gpm (Gu urbidity) pm drae purge. pm turbid pm turb is high at measure purge volumes tion	is at 10 widown dity is a dity is a 1.19 s	trem 8NTV 75 ST 2+ 3 75 At 105.	is. GW is. GW hable. 3 NTU 25 NT (OVEX)	rbid. Reismilke ismilke Turbid	y white	n+ 75
1441: WL 25-98 a  NTUS. CONT.  1501: WL 25-97 at  1508: WL 25-97 at  3.96 mg/L a  Notes: 1) Used a graduated 5 gallon buc.  2) Packed samples on ice immed  MATERIAL CODES: AG = Amber	at, 08 Hoc. T + .08 g muing, 08 g H -08 g H -08 g ket and timed to lately upon collect Glass; CG =	gpon (Gu urbidity) pon drae Purge, pon turbid pon turb is high at measure purge volumes cition Clear Glass; PE = Pe	is at 10 widown dity is a lity is a	Trem  8 NTV  15 ST  2 + 3  15 A +  10 ST  P = Polypro	is. GW  hable:  3 NTU  OVEY)  Dylene: s=sill	reid. Reismilke Turbid S. Conta Jus. De	y white ity is in nuing is his	purge. hat
HAI: WL 25-98 a  NTUS. CONT  1501: WL 25-97 at  1508: WL 25-97 at  3.96 mg/L a  Notes: 1) Used a graduated 5 gallon buc.  2) Packed samples on ice immed  MATERIAL CODES: AG = Amber  SAMPLING/PURGING APP = After Per	at, 08 Hoc. T +.08 g nuing, 08 g H-08 g he of pH ket and timed to lately upon collect	gpm (Gi urbidity) pm drae orge. om thrbid pm thrbid is high at measure purge volumes otion Clear Glass; PE = Po B = Bailer; BF	is at 10 widown dity is a dity is a 1.19 s	TO STATE OF PEROLUPION ESP	is. GW  hable.  3 NTU  3 NTU  OVEN  Electric Subme.	reid. Reismilku Turbidi S. Conta Tus. Do	y White ity is in nurng is his	purage. hat  (Specify)

Notes: 1. The above to not constitute at the information required by Chapter 62-160, F.A.C.

2. <u>STABILIZATION CRITERIA FOR RANGE VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)</u>H: ± 0.2 units; Temperature: ± 0.2 degrees C; Specific Conductance: ± 5%; Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2), optionally, ± .02 mg/L or ± 10% (whichever is greater); Turbidity: all readings ≤ 20 NTU, optionally ± 5 NTU or ± 10% (whichever is greater)

### MW-40 (cent.)

1518: Turbidity is at al NTUS. De is still high at 3.06 mg/c, ph is at 9.03 slus. Will use optional stabilization criteria for DO and ph if were necessary.

1528: Wh 25-91 at .08 gpm. Turbidity is at al NTUS, De is at 2-81 mg/c and pt is at 9.08 slus. Falling back an optional stabilization criteria. Other parameters are stable or in range

### **GROUNDWATER SAMPLING LOG**

SITE						SITE	<del></del>					
	Sumter Co	unty Lanc	lfill			LOCATION:	Sumter	ville, I	FL			
WELL NO:	MW-6A	···		SAMPLE	ID: MW-	-6A			***	DATE: 5	129/10	/
14mm . 022	DVO			· · · · · · · · · · · · · · · · · · ·		GING DA				/	10 // .	L
WELL 2"	- <del>-</del>	TUBING 3		I	REEN INTE		STATIC D	EPTH3	2.79	PURGE PUMP	TYPE	
WELL VOL	UME PURGE:	DIAMETER (	inches): IME = (TOTA	DEPTH:	feet to	feet	TO WATE	R (feet):		OR BAILER: E	SP	
only fill out	f applicable)		(, _,,		,,, – G14	INC DEFIN	O WATER)	X WE	ELL CAPAC	CHY		
EQUIPMEN	IT VOLUME PU	PGE: 1 FOUR	= (	50.84'	feet -		fee	t) X		gallons/foc	ot =	gallons
(only fill out	if applicable)			= PUMP VOL	JME + (TUE	SING CAPACI	TY X	TUBIN	G LENGTH	t) + FLOW CELL	VOLUME X3-	1.335
INITIAL DU	MP OR TUBINO	1 Equip \			flons + (	.006 gallo	ns/foot X	50°	feet) +	.125 a	スノ allons = , ゴム	•
	WELL (feet):		FINAL PUM DEPTH IN V	P OR TUBING VELL (feet):	with.	PURGIL	ED AT:	00	PURGING		TOTAL VOLUM	IE .
	VOLUME	COMUL. VOLUME	1	DEPTH	pH			1	ENDED AT	BYA	PURGED (gallo	vis):/3.90
TIME	PURGED	PURGED	PURGE RATE	TO WATER	(standard	TEMP.	COND.		SOLVED CYGEN	TURBIDITY	COLOR	ODOR
1238	(gallons)	(gallons)	(gpm)	(feet) +	units)	1 9	U	(1	mg/L)	(NTUs)	(describe)	(describe)
1240	12-90	1290	1.25	32.84	2.86	34-26	318	7.	24	14.6	Cloar	None
441	• 5	13.90	137	32.84	7-16 7-86	24-52			20	14.0	Cloa-	None
12				301-137	<i>- 0 \</i>	1-1	3/7	<del>                                     </del>	a3	10.0	Cloar	Nene
	<u>-</u>										<b>———</b>	
			<del> </del>	<del>                                     </del>				<u> </u>				
			<u> </u>							No sk	ream	
												<del></del>
WELL CAP	ACITY (Gallons	Per Footh: 0.7	5" = 0.02-	1" = 0.04; 1	1. <b>25</b> " = 0.06	$2^n = 0.16$						
TUBING INS	SIDE DIA. CAPA	CITY (Gal./Ft.)	): 1/8" = 0.00	)06, <b>3/16</b> " =	0.0014;	1/4" = 0.0026		7; <b>4</b> " 0.004;	= 0.65; 3/8" = 0			= 5.88 = 0.016
SAMDI ED E	BY (PRINT) / AF	C# (AT/Ob)			SAMP	LING DA	TA		······································		, 4,0	0.010
Dale Cla	ytor, Colin	rillation: las Group	inc SA	MPLER(S) 810	NATURES	: 2		SAMPI	LING /	143	SAMPLING A	275
PUMP OR T		Отобр		MPLE PUMP		45	$\sim$		TED AT:		ENDED AT:	~ 3 0
DEPTH IN V	VELL (feet);	~45	FL	OW RATE (ML	. per prihute	): < 250 ı	nL	1	RIAL CODE	⊳ PF		
FIELD DECC	ONTAMINATION	V: (Y) N		LD-FILTEREE tration Equipme		) FILTI	R SIZE:	μm		OUPLICATE:	Y N	7)
	SAMPLE C			T COUNTRY TO THE COUN					=   -	O LIOAT L	Y	/
CANDI E I	SPECIFI #	CATION MATERI	T	ļ	SAM	PLE PRESER	VATION			INTENDED	SA	MPLING
SAMPLE ID CODE	CONTAIN	E AL	VOLUME	PRESERVA		TOTAL VO DED IN FIEL		FINAL	1	ANALYSIS AND/ METHOD		JIPMENT CODE
MW-6A	RS	CODE	-			DED NATIELI	J (IBIL)	pH		···		JODE
	2	PE	1 Ltr	HN03		None				irossAlpha, A226RA228		ESP
56	1 1	PE PE	250 mL 250 mL	H2S04		None		***		Total Ammon	ia	ESP
66	1	PE	500 mL	None		None None			c	<u>Metals</u> hloride,Fluori	de	ESP
REMARKS:					- 1				l Ni	iteata TDC	l l	ESP
1208:	Set dea	fica led	3/4	HE IN	serte	1 55 E	SPon	~dc	dedic	a fed 3/8	e" De 1	
_	tom d	5'6+	can	1star	6/0	MPG	41	00-		hswel	) / CT	2000
	oa	5 1		, f.,	1		' L 2	מיייט קב	1.7	nswel	14492	=115
はか:	we sa	-93 a	+191	om, I	urbic	dits;	Tal	42 1	UT	- 1	/	/
	14 98	m.		'		/ -	- 4)		0143	· Reduction	ed flo	wto
1218:	WL JA	-04 at	779	~~ , +	74 × 10 10	outy is	iat d	8 15	TUS.	Continu	ling pu	rge.
122X:	WC 32	1-841	11-67	ditter :	sat	1 7 1	m 'c	0	1.			
	10 5	nigh at	-7.25	malzi.	but:	5 _	י ליט ו	· Nec	nice.	well. W	+0.0	s gru
	opti and	1 5/00%	1:201	77-1	10-70.	771	, Ca (+	-014	4:51	$well \cdot w$	sel use	
Notes: 1) Use 2) Par	of the Bucked a graduated socked samples of	galion bucket	and timed to I	neasure purge	volumes	TOLDO						
MATERIAL C	andu samples ol	NG = Amber Gl	y upon collec	tion Clear Glass;			(00			· · · · · · · · · · · · · · · · · · ·		
SAMPLING/P		P = After Peris		B = Bailer:	PE = Poly	etnylene; Bladder Pum	PP = Polypro			one; T = Teflo		
EQUIPMENT	CODES: RF	PP = <i>Rever</i> se f	low Peristaltic	c Pump;	SM = Straw	Method (Tubi	ng Gravity D	– ⊏iectn rain);		ible Pump; cuum Trap;	PP ≈ Peristaltic O ≃ Other (Spe	Pump ecify)y
ues: 1. The	above do not co	institute all the i	nformation rec	quired by Chap	der 62-160.	F.A.C.						

STABILIZATION CRITERIA FOR RANGE VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)H: ± 0.2 units; Temperature: ± 0.2 degrees C; Specific Conductance: ± 5%; Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2), optionally, ± .02 mg/L or ± 10% (whichever is greater); Turbidity: all readings ≤ 20 NTU, optionally ± 5 NTU or ± 10% (whichever is greater);

### MW-6A (Cont.)

1235: We 32.84 at . 25 gpm , drawdown is stable. Turbidity has drepped to 17 NTis. Do is still high at 7.22 mg/c. All other forameters are stable or in range.

SITE	D4	-4 1			SITE					
	MW-8	unty Landi	1188	SAMPLE ID: MV	LOCATION:	Sumter	/ille, FL	T	1. 0/11	,
WELL NO:	IAIAA-O				N-0 RGING DA	TA		DATE: 5	28/17	
WELL 2"	PVC	TUBING 3/8	211	WELL SCREEN IN			EDTH 12 .2/	PURGE PUMP T	/DC	
DIAMETER		DIAMETER (in		DEPTH: feet		TO WATER	EPTH 23.56 R (feet):	OR BAILER: ES		
WELL VOL	UME PURGE:	1 WELL VOLU	ME = (TOTAL	WELL DEPTH - S	TATIC DEPTH T	O WATER)	X WELL CAPA	ACITY		
only III out	if applicable)		= (	43.24' feet -		feet	) <i>X</i>	gallons/foot	_	gallons
		IRGE: 1 EQUIP		PUMP VOLUME + (T				TH) + FLOW CELL		
(only fiil out	if applicable)	1 Equip V	ol .	O = <b>~92</b>	6 (200 م 1000 gallo	K4 V	JQ * teeft	+ .125	iallons 2 (9	
NITIAL PUI	MP OR TUBING		FINIAL DUME	OPTURING	PURCIN		48 feet) PURGIN		ialions ≕ `gal TOTAL VOLUM	
DEPTH IN I	WELL (feet):	N38	DEPTH IN W	ELL (feet): ~3	INITIAT	ED AT: 09			PURGED (gallo	
TIME	<b>VOLUME</b>	CUMUL. VOLUME	PURGE	TO PH	TEMP	COND.	DISSOLVED	TURBIDITY	COLOR	ODOR
INVIL	PURGED (gallons)	PURGED (gallons)	RATE (gpm)	WATER (standa units)		(uS/cm)	OXYGEN (mg/L)	(NTUs)	(describe)	(describe)
1002	1.08	1,08	.00	23.57 7.50	0 2416	327	5.40	0.28	1100-	11000
1004	118	1.26	00	2351242	1 24.18	335	5-42	0,26	16001	Mono
006	<del>```\</del> 8-	1.44	.09	23.577.41	6 24.16	33 b	5.31	0.31	Cloar	None
	•	-						, , , , , , , , , , , , , , , , , , ,		
						· · · · · · · · · · · · · · · · · · ·		1/0 0/	roen	
								1000	CUEAN	
									ļ	
		Per Foot): 0.7		1" = 0.04; 1.25" = 0		6; <b>3"</b> = 0.3	7; <b>4"</b> = 0.65;	5" = 1.02; 6"	= 1.47; 12"	= 5.88
UBING IN	SIDE DIA. CAP	ACITY (Gal./Ft.)	: 1/8" = 0.00	06; 3/16" = 0.0014;	1/4" = 0.002 IPLING DA		0.004; 3/8"	= 0.006; 1/2" = 0	0.010; <b>5/8</b> "	= 0.016
AMPLED I	BY (PRINT) / AI	FFILIATION:	SA	MPLEB(S) SIGNATUR		<u> </u>				1022
Dale Cla	aytor, Coli	nas Group,		400 h	MES!		SAMPLING INITIATED AT:	1007	SAMPLING ENDED AT:	1022
PUMP OR		738 W		MPLE PUMP			TUBING			
EPTH IN L	NELL (feet):			OW RATE (ml. permir LD-FILTERED: Y		mL 'ER SIZE:	MATERIAL CO	DDE: PE		
IELD DEC	ONTAMINATIO	" (C) " <i>f</i>	Drub 4 Fill	tration Equipment Type		ER SIZE	µ <b>m</b>	DUPLICATE:	Y	)
		CONTAINER C	2~17	s	SAMPLE PRESE	RVATION				
SAMPLE I	D #	MATERI	7	PRESERVATIVE	TOTAL V	2/	FINAL	INTENDED ANALYSIS ANDA		AMPLING UIPMENT
CODE	CONTAIL	VE AL CODE	VOLUME	USED	ADDED IN FIEL		pH	METHOD		CODE
8-WM	2	PE	1 Ltr	HN03	None			GrossAlpha,	100	ESP OC
	1	PE	250 mL	H2S04	None			RA226RA228	APP	ECD A
"		PE	250 mL	HN03	None			Total Ammon Metals	APP	EGP X
"	1	PE	500 mL	None	None			Chloride,Fluori	de, AP	ESP/C
EMARKS:	C : 1.	1		10 1 1				Nitrate, TDS		
<b>320</b> ;	setale	dicatea	(1/44.7	eridut 39	at ~ 3	8,040	candi	started p	aup a	+,0990
1954	: WL 2=	1.50%	100	gpm, GW						
a510	( , , , , , )	2021	, 0 , 2	JAM GU	o cle	$\alpha_r$ .	_	_		
1)0		(2)) A	+-09	9pm 10	trawdu	2 WIT 7.	5 5406	6. DO:	s his	at
		- Or 11	DUT IS	Slawin	Cronn.	1 m	1			
	high	final's	0000	slowlyo	، رغر غرب	9 (1	n.s we	11 typic	allyh	کھ
	\ V F \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	V AT NEC	essary	· Allothe	2 para	meter	-Sam s	10560 pc		
			•		•	-,	200, 627			ge.
Vat 41 ()										
				measure purge volum	es					
2) F	acked samples	on ice immediat	ely upon colle	ection		DD = Dolero	ranyloro: \$ - 4	Sillenno: T = T-B	m: 0 = 0"	(Constell
2) F MATERIAL	acked samples	on ice immediat AG = Amber G	ely upon colle lass; CG =	ction Clear Glass; PE =	Polyethylene;	PP = Polyp		Sillcone, T = Teflo		er (Specify)
2) F IATERIAL AMPLING QUIPMEN	Packed samples CODES:  /PURGING I T CODES: F	on ice immediat  AG = Amber G  APP = After Peris  RFPP = Reverse	ely upon colle lass; CG = staffic Pump; Flow Peristal	ction Clear Glass; PE = B = Bailer;	Polyethylene; BP = Bladder Pu Straw Method (Tu	mp; ES	P = Electric Subr		on; O = Other PP = Peristall O = Other (S	c Pump

Notes: 1. The above do not constitute all the information required by Chapter 62-160, F.A.C.

2. <u>STABILIZATION CRITERIA FOR RANGE VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)</u>H: ± 0.2 units; Temperature: ± 0.2 degrees C; Specific Conductance: ± 5%; Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2), optionally, ± .02 mg/L or ± 10% (whichever is greater); Turbidity: all readings ≤ 20 NTU, optionally ± 5 NTU or ± 10% (whichever is greater)

### **GROUNDWATER SAMPLING LOG**

SITE									·		
1	Sumter Co	untv Land	fill			SITE LOCATION:	Sumter	villa El			
WELL NO:				SAMPLE	EID: MV		Ounter	ville, FL	DATE.	12=1	,
				Orden LL		RGING DA	TA		DATE: 5	<i>0</i> 9/14	
WELL 2"	PVC	TUBING 3/	8"	WELL SO	REEN INT			EDTU 33 A S	BURGE BUMB 7	·	<del></del>
DIAMETER	? (inches):	DIAMETER (I	nches):	DEPTH:	feet to	o feet	TO WATE	EPTH 32.73	OD BAUED. E		
WELL VOL	UME PURGE:	1 WELL VOLU	ME = (TOTAL	L WELL DEF	TH - ST	ATIC DEPTH T	O WATER)	X WELL CA	PACITY	<u> </u>	
only IIII out	'if applicable)										1
EQUIPMEN	IT VOLUME PU	RGE: 1 EQUIP	= (	50.17'	feet -	RING CARACI	fee:	TIPING LENG	gallons/foo	f =	gallons
(only fill out	if applicable)			10/11/102	.010	DING CAPACI	11 1	TUDING LENG	GTH) + FLOW CELL	VOLUME 3.	· 16335
1447144 514		1 Equip V			allons + (			50 feet	) + <b>.125</b>	galions = 🌙	√ 5 gallons
	MP OR TUBING WELL (feet):	~42°	FINAL PUMF DEPTH IN W			F PURGIN		PURGI	NG	TOTAL VOLUE	WF
		CUMUL.	1 1	DEPTH		INTIATI	ED AT. <b>09</b>	1	1	PURGED (gall	ons): 23.20
TIME	VOLUME PURGED	VOLUME PURGED	PURGE RATE	TO WATER	pH (standard	TEMP.	COND.	DISSOLVE	IURBIDITY	COLOR	ODOR
	(galions)	(gallons)	(gpm)	(feet)	units)	(C)	(uS/cm)	(mg/L)	(NTUs)	(describe)	(describe)
1027	20.00	20-80	.6	36.34	6.50	92.17	979	0,77	13.8	Class	Slight
1009	1.20	22.00	ط.	36.32.	6.56		978	8.69		Class	2.76
1031	1.90	23.20	-6	36.32	6.50	32.11	979	0.6		Cloor	Some
	,			<del></del>	-	+	·		1		
			<del> </del>					<del> </del>		ļ	<del>                                     </del>
						-		<del> </del>	1/2 51	rean	<del> </del>
									10036	Clary.	<del>                                     </del>
			ļ								
WELL CAP	ACITY (Gallons	Par Footh: 0.7	E" - 0.00: 1	l" = 0.04:	1.25" = 0.0	20. 27. 0.11					
TUBING INS	SIDE DIA. CAP	ACITY (Gal./Ft.)	: 1/8" = 0.00		= 0.0014;	06; 2" = 0.16 1/4" = 0.0026			5" = 1.02; 6" = 0.006; 1/2" = 0		= 5.88 = 0.016
					SAM	PLING DA	TA			2.010, 0/0	_ 0.070
	BY (PRINT) / AF		SAI	MPLER(S) S	GNATURE	S:		CAMPI INC	1032	0.44404.4440	1045
	ytor, Colir	nas Group,			100	UKA.		SAMPLING INITIATED A	T: 1000	SAMPLING ENDED AT:	1073
PUMP OR T DEPTH IN V		41/1		MPLE PUMP		770		TUBING			
		myd		OW RATE (# LD-FILTE <b>RS</b>		_	ER SIZE:	MATERIAL C	ODE: PE		
FIELD DEC	ONTAMINATIOI	V: (Y) N		ration Equipn		<u>ツ ~~~</u>		µ <b>m</b>	DUPLICATE:	Y	<b>ウ</b> ー
		ONTAINER			SA	MPLE PRESER	VATION				
SAMPLE ID	1 4	CATION MATERI			— т		· · · · · · · · · · · · · · · · · · ·		INTENDED ANALYSIS AND		AMPLING
CODE	CONTAIN		VOLUME	PRESER		TOTAL VO ADDED IN FIEL		FINAL pH	METHOD	OK EG	CODE
104.00	RS	CODE					J (1112)		C		
MW-9A	2	PE	1 Ltr	HNO	)3	None			GrossAlpha, RA226RA228		ESP
66	1	PE PE	250 mL	H2S		None		***	Total Ammon	ia	ESP
56	1	PE	250 mL 500 mL	HNO		None			Metals Chloride,Fluori	de	ESP
REMARKS:		FE	OUU ITHL	Non	ie	None			Nitrate, TDS	we,	ESP
3955	Insert	ed 55 8	SPan	d ded	ولدي:	1318"	P5 L	Gina L	0~42.6	to- an	<b>A</b>
<i>a</i> (00 ·	clant	10	7 - 1	0 00	·	- 710	,	.0	V >- 10 U	, 00 -	
		edpum									
1000	WL 37	15', W	ellis	draw	100 C	lours.	C . 2 -	ل برم ع	emely to	, ,	
(5-5.	مرجه سا					de sort i	GW L	s expre	emely tu	reidi	but is
	797.00	tor fl	ats we	l/a+l	begin	ning of	purg	e. led	was floor	V+0,7	2500
1006	WC 37	1-07 at	) a	om.	Ju. 6	id-15	: e . I	- ep/ 4	Mus. A	1.	
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Class	ر المسل		· \	-1 -17		> A 7	81 1	Mus. Al	4 cuit	ed
	Tue	100	970	7.							
1015:	WL 36	32' a	4-69	pm.	Aur 6	idity :	sat	3511	us Conti		
(01)	v 2 (.	. 25 1			100,0	, ,		// ty -	בדוו שטיי כייי	nu.19	purge.
10%).	WL >6	in Ja at	· 69P	on O	rawd	lown is	stal	56.Tv	-bidityi.	59+18	8 NTUS.
Notes: 1) Us	ed a graduated	5 gallon bucket	and timed to r	neasure purc	ge volumes	Allot	her po	ramete	ers are sta	Sledri	n range
MATERIAL C		AG = Amber Gi									
SAMPLING/F		PP = After Peris		B = 8aile	· · · · · · · · · · · · · · · · · · ·				Silicone; T = Teflo		er (Specify)
EQUIPMENT		PP = Reverse i				) ≂ Bladder Pun aw Method (Tub		P = Electric Subi	mersible Pump;	PP = Peristalti	c Pump

Notes: 1. The above do not constitute all the information required by Chapter 62-160, F.A.C.

2. <u>STABILIZATION CRITERIA FOR RANGE VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)</u>H: ±0.2 units; Temperature: ±0.2 degrees C; Specific Conductance: ±5%; Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2), optionally, ±.02 mg/L or ±10% (whichever is greater); Turbidity: all readings ≤ 20 NTU, optionally ± 5 NTU or ±10% (whichever is greater)

BIASET.	Sumtar Ca		C.II		SITE					•		
NAME: WELL NO:		unty Land	fill		LOCATION:	Sumter	ville, FL					
WELL NO:	INIAA-10			SAMPLE ID: M				DATE:	28/1	4		
WELL 2"	DVC	7/2012 2/	0.00 . 1.1.5		JRGING DA			- 1	57,	,		
DIAMETER		TUBING -3/		WELL SCREEN II DEPTH: fee	NTERVAL et to feet	STATIC D	EPTH 23.59	PURGE PUMP TYP		<u></u>		
WELL VOL	UME PURGE:	1 WELL VOLU	ME = (TOTA	AL WELL DEPTH -		TO WATE O WATER)	X WELL CAP	OR BAILER - EST	ac pi			
Only fill out	if applicable)						× 11222 040	A011 1				
EQUIPMEN	IT VOLUME PL	IRGE: 1 EQUIP	# (	<b>45.35'</b> feet – = PUMP VOLUME + (	TURING CARACI	fee		gallons/loot	=	galions		
(only fill out	if applicable)			0	,0006		TUBING LENG	TH) + FLOW CELL VO	<sup>OLUME</sup> х З	-,726		
INITIAL DU	MP OR TUBING	1 Equip V		= -02 bgailons + (		ns/foot X	45 feet)	+ .125 gallor	ns = , a v			
DEPTH IN	WELL (feet):	~ 40°	FINAL PUM DEPTH IN V	IP OR TUBING NELL (feet): メム	PURGIN	IG ED AT: <b>()9</b>	PURGIN I O ENDED	IG   TO	TAL VOLUN	Æ		
	VOLUME	CUMUL. VOLUME		DEPTH nH	1	(	DISSOLVED	1010	JRGED (galic	ons): (A		
TIME	PURGED	PURGED	PURGE RATE	WATER (stand	ard P.	COND.	OXYGEN	TURBIDITY (NTUs)	COLOR (doportha)	ODOR (documents)		
6017	(gallons)	(gallons)	(gpm)	(feet) units		J	(mg/L)	(74103)	(describe)	(describe)		
6919	, 2A	. 7)	<del>  • !                                  </del>	24.14 6.9		223	0.86	4.30	Llear	None		
8921	. 22	137	11/1	34.14 6.7	3 34.34	256	8,27	3.40	Clase	None		
0 /01 1		1.0		24.14	1 24.14	226	00.74	3.29	Leo-	None		
						· · · · · · · · · · · · · · · · ·	ļ	NO 54	een			
						·						
MELLCAD	ACITY (O. II											
TUBING INS	SIDE DIA. CAP	Per Foot): 0.7	5" = 0.02; :   1/8" = 0.00	1" = 0.04; 1.25" = 006; 3/16" = 0.0014		,		5" = 1.02; 6" = 1		= 5.88		
SAMPLING DATA												
SAMPLED E	BY (PRINT) / AF	FILIATION:	SA	MPLEDS) SIGNATUL	35S:	/	24450 010	000				
Dale Claytor, Colinas Group, Inc.  SAMPLING 1992 SAMPLING 1992 SAMPLING 1992 SAMPLING 19940  SAMPLING 19940  SAMPLING 19940												
POMP OR TUBING TUBING												
FIELD DECONTANGUATION (V) A WAS FIELD-FILTERED: Y (N) FILTER SIZE: UM												
· ·-LD DLO	57 T. 7 TI WILLIAM T. 1 TO 1	* ( ) 14 %	Fil	tration Equipment Type	シノ					3 1		
	CAMPLE	ONTAINED	221					DUPLICATE:	Y	/		
		ONTAINER CATION	eny -	1	SAMPLE PRESER	VATION				<i>y</i>		
SAMPLE IE	SPECIFI #	CATION MATERI	<del>~ 7</del>	S	SAMPLE PRESER		FINAI	INTENDED ANALYSIS AND/OR	SA	MPLING UIPMENT		
	SPECIFI #	CATION MATERI	VOLUME	1		L	FINAL pH	INTENDED	SA EQ			
SAMPLE IE	SPECIFI # CONTAIN	CATION MATERI E AL	<del>~ 7</del>	PRESERVATIVE USED	TOTAL VO	L	11	INTENDED ANALYSIS AND/OR METHOD	SA	UIPMENT CODE		
SAMPLE IL CODE  MW-10	SPECIFI # CONTAIN RS	E MATERI E AL CODE PE	volume  1 Ltr	PRESERVATIVE USED HN03	TOTAL VO ADDED IN FIELD None	L	11	INTENDED ANALYSIS AND/OR METHOD  GrossAlpha, RA226RA228	SA EQ	CODE CODE		
SAMPLE IE CODE MW-10 "	SPECIFI # CONTAIN RS 2	CATION MATERI E AL CODE	VOLUME	PRESERVATIVE USED	TOTAL VO	L	11	INTENDED ANALYSIS AND/OR METHOD  GrossAlpha, RA226RA228  Total Ammonia	SA EQ	ESP-0		
SAMPLE IL CODE  MW-10	SPECIFIC # CONTAIN RS 2	ECATION  MATERI AL CODE  PE PE	VOLUME  1 Ltr 250 mL	PRESERVATIVE USED HN03 H2S04	TOTAL VO ADDED IN FIELD None None	L	pH 	INTENDED ANALYSIS AND/OR METHOD  GrossAlpha, RA226RA228 Total Ammonia Metals Chloride, Fluoride	APP -	ESP 4 ESP 4		
SAMPLE IL CODE  MW-10  " " REMARKS:	SPECIFIC # CONTAIN RS 2 1 1 1 1	MATERI AL GODE  PE  PE  PE  PE  PE	VOLUME  1 Ltr  250 mL  250 mL	PRESERVATIVE USED HN03 H2S04 HN03 None	TOTAL VO ADDED IN FIELD None None None None	L D (mL)	pH	INTENDED ANALYSIS AND/OR METHOD  GrossAlpha, RA226RA228  Total Ammonia Metals Chloride,Fluoride Nitrate, TDS	RPP -	ESP 4		
SAMPLE IL CODE  MW-10  " " REMARKS:	SPECIFIC # CONTAIN RS 2 1 1 1 1	MATERI AL GODE  PE  PE  PE  PE  PE	VOLUME  1 Ltr  250 mL  250 mL	PRESERVATIVE USED HN03 H2S04 HN03 None	TOTAL VO ADDED IN FIELD None None None None	L D (mL)	pH	INTENDED ANALYSIS AND/OR METHOD  GrossAlpha, RA226RA228  Total Ammonia Metals Chloride,Fluoride Nitrate, TDS	RPP -	ESP 4		
SAMPLE IE CODE  MW-10  " " REMARKS: O9LO.	SPECIFIC THE CONTAIN RS  2  1  1  1  Set de	PE PE PE PE	VOLUME  1 Ltr 250 mL 250 mL 500 mL	PRESERVATIVE USED  HN03  H2S04  HN03  None	None None None	(0°64	pH	INTENDED ANALYSIS AND/OR METHOD  GrossAlpha, RA226RA228  Total Ammonia Metals Chloride,Fluoride Nitrate, TDS	RPP -	ESP O( ESP 24 ESP 24		
SAMPLE IE CODE  MW-10  " " REMARKS: O910.	SPECIFIC TONTAIN RS  2  1  1  1  WE 24	PE PE PE PE PE PE PE PE	VOLUME  1 Ltr 250 mL 250 mL 500 mL	PRESERVATIVE USED  HN03  H2S04  HN03  None  PE Jubia	None None None None None None	(0°6+	pH	INTENDED ANALYSIS AND/OR METHOD  GrossAlpha, RA226RA228  Total Ammonia Metals Chloride,Fluoride Nitrate, TDS	APP -	ESP OF ES		
SAMPLE IE CODE  MW-10  " " REMARKS: O910.	SPECIFIC TO SPECIFICATION OF SPECIFICATI	PE	VOLUME  1 Ltr 250 mL 250 mL 500 mL	PRESERVATIVE USED  HN03  H2S04  HN03  None  PE + US; 1	None None None None None None	(0°6+	pH	INTENDED ANALYSIS AND/OR METHOD  GrossAlpha, RA226RA228  Total Ammonia Metals Chloride,Fluoride Nitrate, TDS	APP -	ESP OF ES		
SAMPLE IE CODE  MW-10  " " REMARKS: O910.	SPECIFIC TO SPECIFICATION OF SPECIFICATI	PE	VOLUME  1 Ltr 250 mL 250 mL 500 mL	PRESERVATIVE USED  HN03  H2S04  HN03  None  PE + US; 1	None None None None None None	(0°6+	pH	INTENDED ANALYSIS AND/OR METHOD  GrossAlpha, RA226RA228  Total Ammonia Metals Chloride,Fluoride Nitrate, TDS	APP -	ESP OC ESP OC ES		
SAMPLE IE CODE  MW-10  " " REMARKS: O910.	SPECIFIC TO SPECIFICATION OF SPECIFICATI	PE PE PE PE PE PE PE PE	VOLUME  1 Ltr 250 mL 250 mL 500 mL	PRESERVATIVE USED  HN03  H2S04  HN03  None  PE + US; 1	None None None None None None	(0°6+	pH	INTENDED ANALYSIS AND/OR METHOD  GrossAlpha, RA226RA228  Total Ammonia Metals Chloride,Fluoride Nitrate, TDS	APP -	ESP OC ESP OC ES		
SAMPLE IE CODE  MW-10  " " REMARKS: O910.	SPECIFIC TO SPECIFICATION OF SPECIFICATI	PE	VOLUME  1 Ltr 250 mL 250 mL 500 mL	PRESERVATIVE USED  HN03  H2S04  HN03  None  PE + US; 1	None None None None None None	(0°6+	pH	INTENDED ANALYSIS AND/OR METHOD  GrossAlpha, RA226RA228  Total Ammonia Metals Chloride,Fluoride Nitrate, TDS	APP -	ESP OC ESP OC ES		
SAMPLE IE CODE  MW-10  " " REMARKS: O910.	SPECIFIC TO SPECIFICATION OF SPECIFICATI	PE	VOLUME  1 Ltr 250 mL 250 mL 500 mL	PRESERVATIVE USED  HN03  H2S04  HN03  None  PE + US; 1	None None None None None None	(0°6+	pH	INTENDED ANALYSIS AND/OR METHOD  GrossAlpha, RA226RA228  Total Ammonia Metals Chloride,Fluoride Nitrate, TDS	APP -	ESP OC ESP OC ES		
SAMPLE IE CODE  MW-10  " " REMARKS: O910.	SPECIFIC TO SPECIFICATION OF SPECIFICATI	PE	VOLUME  1 Ltr 250 mL 250 mL 500 mL	PRESERVATIVE USED  HN03  H2S04  HN03  None  PE + US; 1	None None None None None None	(0°6+	pH	INTENDED ANALYSIS AND/OR METHOD  GrossAlpha, RA226RA228  Total Ammonia Metals Chloride,Fluoride Nitrate, TDS	APP -	ESP OC ESP OC ES		
SAMPLE IE CODE  MW-10  " " REMARKS: O910.	SPECIFIC TO SPECIFICATION OF SPECIFICATI	PE	VOLUME  1 Ltr 250 mL 250 mL 500 mL	PRESERVATIVE USED  HN03  H2S04  HN03  None  PE + US; 1	None None None None None None	(0°6+	pH	INTENDED ANALYSIS AND/OR METHOD  GrossAlpha, RA226RA228  Total Ammonia Metals Chloride,Fluoride Nitrate, TDS	APP -	ESP OC ESP OC ES		
SAMPLE IL CODE  MW-10  " " REMARKS: 0910.' 0914.'	SPECIFIED TO SPECI	PE P	VOLUME  1 Ltr 250 mL 250 mL 500 mL	PRESERVATIVE USED  HN03  H2S04  HN03  None  PE + US; A	None None None None None None None None	(0°6+	pH	INTENDED ANALYSIS AND/OR METHOD  GrossAlpha, RA226RA228  Total Ammonia Metals Chloride,Fluoride Nitrate, TDS	APP -	ESP OC ESP OC ES		
SAMPLE IL CODE  MW-10  " REMARKS: O9 LO: 09 LO:	SPECIFIED # CONTAIN RS  2  1  1  Set do  WL 24  WL 24  Stable	PE PE PE PE PC	VOLUME  1 Ltr 250 mL 250 mL 500 mL 1/4 ·· 1/9 -1/9 am ge	PRESERVATIVE USED  HN03  H2S04  HN03  None  PE + US; A  PM GM  PM draw  measure purge volume  ction	None None None None None None None None	(0°6+	pH	INTENDED ANALYSIS AND/OR METHOD  GrossAlpha, RA226RA228  Total Ammonia Metals Chloride,Fluoride Nitrate, TDS	APP -	ESP OC ESP OC ES		
SAMPLE IL CODE  MW-10  " " REMARKS: O910: O916:  Notes: 1) Us 2) Pa	SPECIFIE  CONTAIN  RS  1  1  Set di  WL 24  WL 24  Stable  ed a graduated cked samples of codes:	PE PE PE PE PE PE PE PE Ad: Cate  'Y' at  'Y'	VOLUME  1 Ltr 250 mL 250 mL 500 mL  1 1 4 · · · · · · · · · · · g  - · · · · · g  and timed to by upon collectes; CG =	PRESERVATIVE USED  HN03  H2S04  HN03  None  PE + US; A  PM GM  Mraw  measure purge volume ction  Clear Glass; PE = 1	TOTAL VO ADDED IN FIELD None None None None None None None Power is a series of the se	C (mL)	pH	INTENDED ANALYSIS AND/OR METHOD  GrossAlpha, RA226RA228  Total Ammonia Metals Chloride,Fluoride Nitrate, TDS	APP -	ESP OF ES		
SAMPLE IL CODE  MW-10  " " REMARKS: 0910.' 0916.'	SPECIFIC THE CONTAIN RS  2  1  1  Set do  WL 24  WL 24  Stable  ed a graduated cked samples of codes:  CURGING AF	PE PE PE PE PC	VOLUME  1 Ltr 250 mL 250 mL 500 mL  1 1 4 · · · · · · · · · · · · · · · · ·	PRESERVATIVE USED  HN03  H2S04  HN03  None  PE + US; A  Pm draw  measure purge volume ction  Clear Glass; PE = 1  B = Baller; B	None None None None None None None None	PP = Polyprop: ESP	pH	INTENDED ANALYSIS AND/OR METHOD  GrossAlpha, RA226RA228 Total Ammonia Metals Chloride, Fluoride Nitrate, TDS  Sharfed Pa	APP -	UIPMENT CODE  ESP-O( ESP-Q ESP-Q ESP-Q (Specify) Pump		

Notes: 1. The above do not constitute all the information required by Chapter 62-160, F.A.C.
2. <u>STABILIZATION CRITERIA FOR RANGE VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)</u>H: ± 0.2 units; Temperature: ± 0.2 degrees C; Specific Conductance: ± 5%; Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2), optionally, ± .02 mg/L or ± 10% (whichever is greater); Turbidity: all readings ≤ 20 NTU, optionally ± 5 NTU or ± 10% (whichever is greater)

SITE NAME: \$	Sumter Co	untel and	£U			SITE					,	
WELL NO:	MW-11	unty Land	1111	CAMPLE	ID: MW-	LOCATION:	Sumter	ville, FL	1	, ,	,	
TILLETTO.	**********	·-··		SAMPLE			T 6		DATE: 5	198/ (A		
WELL 2"	PVC	TUBING 3/1	R"	INELL SC	PUK! REEN INTE	GING DA		COT / 20 Ø	<del></del>			
DIAMETER	(Inches):	DIAMETER (I	inches):	DEPTH:	feet to	feet	TO WATE	EPTH <b>A5-8</b> R (feet):	OPRAILED F			
WELL VOL	UME PURGE: if applicable)	1 WELL VOLU	ME = (TOTA	AL WELL DEPT	TH - STA	TIC DEPTH 1	O WATER)	X WELL CA	PACITY			
Only In Out	п аррисаше)		= (	40.15'	feet							
EQUIPMEN	T VOLUME PU	RGE: 1 EQUIP		= PUMP VOLU	JME + (TUB	ING CAPACI	feel		gallons/fo GTH) + FLOW CELL	ot =	gallons	
(only fill out	if applicable)			0		0026				- γοτοιις χ <b>3</b>	687	
INITIAL PUI	MP OR TUBING	1 Equip V		= <b>92</b> gal		996 galic			et) + .125	gallons = , A	9 gallons	
DEPTH IN V		V35	DEPTH IN V	WELL (feet):	~35		ED AT: ]/ \	PURGI ENDEL	DAT: 1223	TOTAL VOLU! PURGED (gall		
TIME	VOLUME	CUMUL. VOLUME	PURGE	DEPTH TO	рH	TEMP.	SOND.	DISSOLVE	/			
'''''	PURGED (gallons)	PURGED (gallons)	RATE (gpm)	WATER	(standard units)	(°C)	(NS/cm)	OXYGEN (mg/L)	(NTUs)	(describe)	ODOR (describe)	
1A19	189	1.89	,07	(feet) .	6.22	26.17	N ~	1 801	1.10	11	, , -	
1251	111	2.03	.05		6.21	36.14	3 63	136	4.49	Coor	None	
1223	-14	3.17	(0)	25.83	6.22	26.11	358	15	3.93	1600-	Mana	
				-		`			- 10	- COLAR P	7000	
			<del> </del>		<del> </del>	ļ						
				<del> </del>		<del> </del>			NOS	heen		
				<del> </del>								
WELL CAPA	ACITY (Gallons	Per Foot): 0.7!	5" = 0.02;	1" = 0.04; 1	1.25" = 0.06	; 2" = 0.10	5: <b>3"</b> = 0.3	7. A" = 0.65	5" = 1 02: 6"	7 = 1 47: 40!!	- 5 99	
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016												
SAMPLING DATA  SAMPLED BY (PRINT) / AFFILIATION: SAMPLER(S) SIGNATURES:												
Dale Claytor, Colinas Group, Inc. SAMPLING /224 SAMPLING /245												
PUMP OR TUBING INITIATED AT: ENDED AT:												
			.   9	PLE PUMP					1:	ENDED AT:		
PUMP OR T DEPTH IN W		~ 3×	FL	OW RATE (mL	per minute	<b>~</b>				ENDED AT:		
DEPTH IN I			FL FI	OW RATE (mL ELD-FILTERED	per minuje		mL ER SIZE:	TUBING				
DEPTH IN I	VELL (feet): ONTAMINATION SAMPLE CO	ONTAINER	FL FI	OW RATE (mL	per minute S: Y N ent Type	FILT	ER SIZE:	TUBING MATERIAL C	ODE: PE			
DEPTH IN W	VELL (feet):  ONTAMINATION  SAMPLE CO  SPECIFIC	ONTAINER &	FL Juse Fil	OW RATE (ml. ELD-FILTERED Itration Equipme	per minute 5: Y N ent Type: SAM	PLE PRESER	ER SIZE:	TUBING MATERIAL C	ODE: PE  DUPLICATE:  INTENDED	Y N	AMPLING	
DEPTH IN I	VELL (feet):  ONTAMINATION  SAMPLE CO  SPECIFIE  CONTAINING	ONTAINER &	FL Juse Fil	LOW RATE (mL ELD-FILTERED Itration Equipme	per minute S Y N ent Type. SAM	FILT	RVATION	TUBING MATERIAL C  µm  FINAL	ODE: PE	Y N		
DEPTH IN W	VELL (feet):  ONTAMINATION  SAMPLE COSPECIFIC  #  CONTAINING  RS	ONTAINER DE CATION MATERI E AL CODE	VOLUME	LOW RATE (mL ELD-FILTERED Uration Equipme PRESERV. USEL	SAM  ATIVE  AL	PLE PRESER TOTAL VO DDED IN FIEL	RVATION	TUBING MATERIAL C	DUPLICATE:  INTENDED  ANALYSIS AND METHOD	Y N	AMPLING DUIPMENT	
SAMPLE ID	VELL (feet):  ONTAMINATION  SAMPLE CONTAINING CONTAINING RS 2	DONTAINER DONTAINER DONTAINER AMATERI CODE	VOLUME  1 Ltr	OW RATE (mL ELD-FILTERED Unation Equipme PRESERV USEL	SAM  ATIVE  AL  ATIVE  AL  AL  ATIVE  AL	PLE PRESER  TOTAL VO  DOED IN FIEL  None	RVATION	TUBING MATERIAL C  µm  FINAL	DUPLICATE:  INTENDED ANALYSIS AND METHOD  GrossAlpha, RA226,RA228	Y N S, WOR EG	AMPLING DUIPMENT	
SAMPLE ID CODE  MW-11	VELL (feet):  ONTAMINATION  SAMPLE COSPECIFIC  #  CONTAINING  RS	ONTAINER DE CATION MATERI E AL CODE	VOLUME	LOW RATE (mL ELD-FILTERED Uration Equipme PRESERV. USEL	SAM  ATIVE  AL  AL	PLE PRESER TOTAL VO DDED IN FIEL	RVATION	TUBING MATERIAL C  µm  FINAL	DUPLICATE:  INTENDED ANALYSIS AND METHOD  GrossAlpha, RA226,RA228 Total Ammoi	Y N S, WOR EG	AMPLING DUIPMENT	
SAMPLE ID CODE  MW-11	VELL (feet):  ONTAMINATION  SAMPLE CONTAINING CONTAINING RS 2 1	DONTAINER DONTAINER DONTAINER DAL CODE  PE  PE	VOLUME  1 Ltr  250 mL	OW RATE (mL ELD-FILTERED Itration Equipme PRESERV. USEL HN03	SAM ATIVE AL  3 4 3	FILT  PLE PRESER  TOTAL VO  DOED IN FIEL  None  None	RVATION	TUBING MATERIAL C  µm  FINAL	DUPLICATE:  INTENDED ANALYSIS AND METHOD  GrossAlpha, RA226,RA228 Total Ammod Metals Chloride,Fluor	Y N SN WOR EG	AMPLING UIPMENT GODE  ESP OC EGP OC	
SAMPLE ID CODE  MW-11  " " " REMARKS:	VELL (feet):  ONTAMINATION  SAMPLE CONTAINING CONTAINING RS  1 1 1	DONTAINER DONTAINER DE CATION MATERI AL CODE  PE  PE  PE  PE  PE	VOLUME  1 Ltr 250 mL 600 mL	PRESERV. USEL HN03 H2S0 None	SAM ATIVE AL  3 4 3	PLE PRESER TOTAL VO DDED IN FIEL None None None	ER SIZE:  RVATION  DL  D (mL)	TUBING MATERIAL C μm  FINAL ρH	ODE: PE  DUPLICATE:  INTENDED  ANALYSIS AND METHOD  GrossAlpha, RA226,RA228  Total Ammol Metals Chloride,Fluor Nitrate, TDS	Y N  So  WOR EG  mia APP  ide, APP	AMPLING UIPMENT CODE  ESP OC ESP OC ESP OC	
SAMPLE ID CODE  MW-11  " REMARKS:	ONTAMINATION SAMPLE CONTAINING CONTAINING CONTAINING S  2  1 1	DITAINER AL CODE  PE  PE  PE  PE	VOLUME  1 Ltr 250 mL 500 mL	PRESERV. USEL HN03 None	SAM  ATIVE  AL  3	PLE PRESERT TOTAL VC DDED IN FIEL None None None	ER SIZE:  RVATION DL D (mL)	TUBING MATERIAL C μm  FINAL ρH	ODE: PE  DUPLICATE:  INTENDED  ANALYSIS AND METHOD  GrossAlpha, RA226,RA228  Total Ammol Metals Chloride,Fluor Nitrate, TDS	Y N  So  WOR EG  mia APP  ide, APP	AMPLING UIPMENT CODE  ESP OC ESP OC ESP OC	
SAMPLE ID CODE  MW-11  " REMARKS:	ONTAMINATION SAMPLE CONTAINING CONTAINING CONTAINING S  2  1 1	DITAINER AL CODE  PE  PE  PE  PE	VOLUME  1 Ltr 250 mL 500 mL	PRESERV. USEL HN03 None	SAM  ATIVE  AL  3	PLE PRESERT TOTAL VC DDED IN FIEL None None None	ER SIZE:  RVATION DL D (mL)	TUBING MATERIAL C μm  FINAL ρH	DUPLICATE:  INTENDED ANALYSIS AND METHOD  GrossAlpha, RA226,RA228 Total Ammod Metals Chloride,Fluor	Y N  So  WOR EG  mia APP  ide, APP	AMPLING UIPMENT CODE  ESP OC ESP OC ESP OC	
SAMPLE ID CODE  MW-11  " REMARKS:  // SA!  // SA!	DNTAMINATION  SAMPLE CONTAINING CONTAINING RS  1 1 1 Sel-ded	DONTAINER ACATION  MATERIAL CODE  PE  PE  PE  PE  PE  PE  PE  PE  PE	VOLUME  1 Ltr 250 mL 250 mL	PRESERV. USEL HN03 H2S0 HN03 None	SAM ATIVE AL  3 4 3	PLE PRESENTOTAL VO DOED IN FIEL None None None	RVATION DL (mL)	FINAL pH	ODE: PE  DUPLICATE:  INTENDED ANALYSIS AND METHOD  GrossAlpha, RA226,RA228 Total Ammoo Metals Chloride,Fluor Nitrate, TDS	Y N SI WOR EG  nia App nide, App	AMPLING DUIPMENT CODE  ESP O( ESP O( ESP O( TSP O(	
SAMPLE ID CODE  MW-11  " REMARKS: //52: //52: //53: //	ONTAMINATION  SAMPLE CONTAINING CONTAINING RS  2 1 1 1 1  Sold ded WL 25-4 WL 25-4	DITAINER & CATION  MATERIAL CODE  PE  PE  PE  PE  PE  PE  PE  SCAJED  84' a+	VOLUME  1 Ltr 250 mL 500 mL	PRESERV. USEL HN03 H2S0 HN03 None	SAM  ATIVE  AL  ATIVE  AL  AL  ATIVE  AL  AL  AL  AL  AL  AL  AL  AL  AL  A	PLE PRESER TOTAL VO DDED IN FIEL None None None	ER SIZE:  RVATION DL (mL)	TUBING MATERIAL C	ODE: PE  DUPLICATE:  INTENDED  ANALYSIS AND METHOD  GrossAlpha, RA226,RA228 Total Ammoi Metals Chloride,Fluor Nitrate, TDS	Y N  SI  WOR EG  mia APP  mide, APP	AMPLING UIPMENT GODE  ESP OC ESP OC TSP OC	
SAMPLE ID CODE  MW-11  " REMARKS:  //52:  //59:  //	DITAMINATION  SAMPLE CONTAINING CONTAINING RS  1 1 1 Sel ded Wide 25 -	DONTAINER & CATION  MATERIAL CODE  PE  PE  PE  PE  PE  PE  PE  PE  PE	FILT   VOLUME   1 Ltr   250 mL   250 mL   1/4 · · · · · · · · · · · · · · · · · · ·	PRESERV. USEL HN03 H250 HN03 None	SAM ATIVE AL  3 4 3 - 13 - 13 - 13 - 13 - 13 - 13 -	PLE PRESERT TOTAL VODED IN FIEL None None None Clear	ER SIZE:  RVATION  D (mL)  Control  State  The state of t	FINAL pH	ODE: PE  DUPLICATE:  INTENDED  ANALYSIS AND METHOD  GrossAlpha, RA226,RA228  Total Ammod Metals  Chloride,Fluor Nitrate, TDS	Y N  So  WOR  FO  mia  APP  ide, APP  ARA  ARA  ARA  ARA  ARA  ARA  ARA	AMPLING DUIPMENT CODE  ESP OC ESP OC TSP OC TSP OC	
SAMPLE ID CODE  MW-11  " REMARKS:  //52:  //59:  //	DITAMINATION  SAMPLE CONTAINING CONTAINING RS  1 1 1 Sel ded Wide 25 -	DONTAINER & CATION  MATERIAL CODE  PE  PE  PE  PE  PE  PE  PE  PE  PE	FILT   VOLUME   1 Ltr   250 mL   250 mL   1/4 · · · · · · · · · · · · · · · · · · ·	PRESERV. USEL HN03 H250 HN03 None	SAM ATIVE AL  3 4 3 - 13 - 13 - 13 - 13 - 13 - 13 -	PLE PRESERT TOTAL VODED IN FIEL None None None Clear	ER SIZE:  RVATION  D (mL)  Control  State  The state of t	FINAL pH	ODE: PE  DUPLICATE:  INTENDED  ANALYSIS AND METHOD  GrossAlpha, RA226,RA228  Total Ammod Metals  Chloride,Fluor Nitrate, TDS	Y N  So  WOR  FO  mia  APP  ide, APP  ARA  ARA  ARA  ARA  ARA  ARA  ARA	AMPLING DUIPMENT CODE  ESP OC ESP OC TSP OC TSP OC	
SAMPLE ID CODE  MW-11  " REMARKS:  //52:  //59:  //	DITAMINATION  SAMPLE CONTAINING CONTAINING RS  1 1 1 Sel ded Wide 25 -	DONTAINER & CATION  MATERIAL CODE  PE  PE  PE  PE  PE  PE  PE  PE  PE	FILT   VOLUME   1 Ltr   250 mL   250 mL   1/4 · · · · · · · · · · · · · · · · · · ·	PRESERV. USEL HN03 H250 HN03 None	SAM ATIVE AL  3 4 3 - 13 - 13 - 13 - 13 - 13 - 13 -	PLE PRESERT TOTAL VODED IN FIEL None None None Clear	ER SIZE:  RVATION  D (mL)  Control  State  The state of t	FINAL pH	ODE: PE  DUPLICATE:  INTENDED  ANALYSIS AND METHOD  GrossAlpha, RA226,RA228  Total Ammod Metals  Chloride,Fluor Nitrate, TDS	Y N  So  WOR  FO  mia  APP  ide, APP  ARA  ARA  ARA  ARA  ARA  ARA  ARA	AMPLING DUIPMENT CODE  ESP OC ESP OC TSP OC TSP OC	
SAMPLE ID CODE  MW-11  " REMARKS: //52: //52: //52: //52: //53: //	DITAMINATION  SAMPLE CONTAINING CONTAINING 2 1 1 1 Solded Wild DS WORLD OF IN CO	DNTAINER & CATION  MATERIAL CODE  PE  PE  PE  PE  PE  SCATED  AL  CODE  PE  PE  PE  AL  CODE  PE  PE  PE  PE  CATED  AL  CODE  PE  PE  PE  PE  CATED  AL  CODE  PE  PE  PE  PE  CATED  AL  CODE  PE  PE  PE  PE  CATED  AL  CODE  AL	VOLUME  1 Ltr  250 mL  500 mL  (14.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.	PRESERV. USEL  HNOS  H2SO HNOS  None  CE fus;  OM G  S(OW)	ATIVE AL	PLE PRESENTOTAL VC DDED IN FIEL  None None None Clear Clear Copposite None	Stoce  St	FINAL pH	DUPLICATE:  INTENDED ANALYSIS AND METHOD  GrossAlpha, RA226,RA228 Total Ammoi Metals Chloride,Fluor Nitrate, TDS	Y (N)  WOR EG  Mia APP  Mide, APP  Chap at  Conge a  Conge a  Conge a  Conge a  Conge a	AMPLING OUIPMENT CODE  ESP OC ESP OC TSP OC	
SAMPLE ID CODE  MW-11  " REMARKS: 1/52: 1156: 11	DITAMINATION  SAMPLE CONTAINING CONTAINING CONTAINING 1  1  Sold ded  Wide 25 - 1  United 25 - 1  Or in recommendation	DISTAINER ACATION  ENATION  PE  PE  PE  PE  PE  AL  CODE  AL	FILT	PRESERV. USEL  HNO: H250 HNO: None  CE fub; OM G  OM G	SAM  ATIVE AL  3  4  3  4  7  7  7  7  7  8  10  10  10  10  10  10  10  10  10	PLE PRESERT TOTAL VO DDED IN FIEL  None None None None None None None Non	ER SIZE:  RVATION  D (mL)  Stock  S Stock  O O O	FINAL pH  and st  copies of	DUPLICATE:  INTENDED ANALYSIS AND METHOD  GrossAlpha, RA226,RA228 Total Ammoi Metals Chloride,Fluor Nitrate, TDS	Y (N)  WOR EG  mia APP  ide, APP  chap at  e-s are  angle 6	AMPLING OUIPMENT CODE  ESP OC ESP OC TSP OC	
SAMPLE ID CODE  MW-11  " REMARKS: //52: //52: //53: //54: //53: //54: //53: //54: //53: //54: //	DITAMINATION  SAMPLE CONTAINING  CONTAININ	PE P	VOLUME  1 Ltr 250 mL 250 mL 500 mL  1/4 · f 0 > 9 f 0 > 9 f 0   9 f 0	PRESERV.  USEL  HN03  H250  HN03  None  PM G  OM	ATIVE ALL  SAM  ALL  S	PLE PRESERT TOTAL VO DDED IN FIEL  None None None None None None None Non	ER SIZE:  RVATION  D (mL)  Stock  S Stock  O O O	FINAL pH  and st  copies of	ODE: PE  DUPLICATE:  INTENDED  ANALYSIS AND METHOD  GrossAlpha, RA226,RA228  Total Ammod Metals  Chloride,Fluor Nitrate, TDS	Y (N)  WOR EG  mia APP  ide, APP  chap at  e-s are  angle 6	AMPLING OUIPMENT CODE  ESP OC ESP OC TSP OC	
SAMPLE ID CODE  MW-11  " REMARKS: 1/52: 1156: 11 1159: 11	SAMPLE CONTAININATION SAMPLE CONTAININATION CONTAIN	PE P	VOLUME  1 Ltr 250 mL 250 mL 600 mL  1/4 · f 0) 9 f 0 very and timed to bly upon colle	PRESERVE USEL HN03 H2S0 HN03 None PE + u 6; Om G S(Ow)  Management of the section	ATIVE ALL  SAM  ATIVE ALL  SAM	PLE PRESENT TOTAL VCDED IN FIELD None None None None None None None None	Stoce	FINAL pH  FINAL pH	DUPLICATE:  INTENDED ANALYSIS AND METHOD  GrossAlpha, RA226,RA228 Total Ammoi Metals Chloride,Fluor Nitrate, TDS  Oramet	Y (N) WOR EG  MIA APP  MIA APP	AMPLING OUIPMENT CODE  ESP OC ESP OC ESP OC  STACE  STACE	
SAMPLE ID CODE  SAMPLE ID CODE  MW-11  " REMARKS: //52: //54	ONTAMINATION  SAMPLE CONTAINING  CONTAININ	PE P	VOLUME  1 Ltr 250 mL 250 mL 500 mL  1/4 · f 0) 9 f 0 9	PRESERV.  USEL  HN03  H250  HN03  None  Clark States  Managure purgencion  Clear Glass;  B = Bailor	ATIVE ALL  SAM  ATIVE ALL  ALL  ALL  ALL  ALL  ALL  ALL  ALL	PLE PRESERT TOTAL VO DDED IN FIEL  None None None None None None None Non	ER SIZE:  RVATION  D (mL)  Stock  Stock  PP = Polypin  PP: ESF	FINAL pH  FINAL pH	DUPLICATE:  INTENDED ANALYSIS AND METHOD  GrossAlpha, RA226,RA228 Total Ammoi Metals Chloride,Fluor Nitrate, TDS	Y (N) WOR EG  MIA APP  MIA APP	AMPLING OUIPMENT CODE  ESP OC ESP OC ESP OC  STACE  (Specify) Pump	

<sup>2. &</sup>lt;u>STABILIZATION CRITERIA FOR RANGE VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)H</u>: ± 0.2 units; Temperature: ± 0.2 degrees C; Specific Conductance: ± 5%; Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2), optionally, ± .02 mg/L or ± 10% (whichever is greater); Turbidity: all readings ≤ 20 NTU, optionally ± 5 NTU or ± 10% (whichever is greater);

ENVIRONMENTAL CONSERVATION LABORATORIES CHAIN-OF-CUSTODY RECORD 10775 Cardital Port Day 18 Cardinal Port Day 18 Ca

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A	7)68	ペナニ	4	G€	<b>\</b>	×	\ <b>X</b>	X	<b>(×</b>	<b>*</b>					· · · · · · · · · · · · · · · · · · ·	]
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Maint : DW.Grauntwaler SO-Soe DW-Drawing Withor SE-Sediment SW-Burings Weller WW-Wastewater A-An O-Olling (detail in correnents)

E-Sediment 8W-Burtico Water WW-Westewater A-Art O-Offinit (detail in comments)
Note: All uniformal and solve the solve of the form of the form, unless submitted to ENCO Late use in accordance with the infine and contilions listed on the revenue of this form, unless approximate activities.

### DEP-SOP-001/01: Form FD 9000-8 (June 20, 2001)

Page lof 2

### Field Instrument Calibration Records

INSTRUI	MENT	(MAKE/M	ODEL#)	YSI 556/Han	na IN	STRUMENT	#		
PARAME									
THE STATE OF	MPERA	TURE	CONE	DUCTIVITY DUAL CL	□ SALI	NITY S	<b>(</b> pH	□ ORP	
I IU	RBIDIT	Y ´	RESIL	OUAL CL	XQO		OTHER		
				eters pH 4.01 – 7					
				Standard 4.01					
						1.			
Stanc	dard C	Oak	ton Cone	tandard 7.00 ductivity Stand	land 150	Custom Ev	2016		
Stanc	dami D	Han	na () 1 M	TU Standard	Eva:	O USICIII EX	1.8/d	<b>9</b> 7	
				TU Standard				<del></del>	
		-1		TU Standard	<u> </u>	4/2011			1
DATE (yy/mm/dd)	TIME (hr:min		STD VALUE	INSTRUMENT RESPONSE	% DEV	CALIBRATED (YES, NO)	TYPE (INIT, CONT)	SAMPLER INITIALS	
< 18/14	083		4.01	4.01		405	IC	IR	рН
1	{	B	7.00	7.00			- 1		pН
		<u> </u>	1500	1500					Cond
				8.30	<u> </u>				DO
				24.77					Temp
		$\frac{D}{\pi}$	0.1	0.1					Turb
		E	15	15.0		1			Turb
1. 1							-	L L	
2/98/14	090		4.01	4.03	ļ	405	ICV	1100	pН
	-	В	7.00	2.0a				1	pН
		С	1500	1500					Cond
				8.28					DO
				24.98					Temp
		$\frac{D}{-}$	0.1	0.08					Turb
		E	15	15.0					Turb
	· · · · ·					,			
5 08 14	1610	/ A	4.01	4.01	·	Ves	CC	the	рН
		В	7.00	6.98		, ,		-	рН
		С	1500	1494					Cond
		<del></del>		8-32					DO
				26-22					Temp
		D	0.1	0.10					Turb
		E	15	15.1					Turb
			4.04			l			
		A	4.01						ρН
		В	7.00						pН
		С	1500						Cond
						-			DO
			0.1						Temp
		E	15						Turb
		<u> </u>	10			<u> </u>			Turb

### DEP-SOP-001/01: Form FD 9000-8 (June 20, 2001)

### **Field Instrument Calibration Records**

INSTRUM	MENT (A	/AKE/MO	DDEL#)	YSI 556/Hanr	na_IN	STRUMENT	#		
PARAME	TERS:		•						
<b>X</b> IEI	MPERATU	JRE )	COND	UCTIVITY	□ SALII	VITY X	pΗ	□ ORP	
TUI	RBIDITY	/	☐ RESID	UAL CL	<b>E</b> 200		OTHER_		
STANDA	RDS: [	Bracket cal	ibrated me	√ 2- ters pH 4.01 – 7	and Turb	oidity 0.1 – 15 <b>Ņ</b>	TU's ]		
Stan	dard A	Oakt	on pH S	Standard 4.01	Units	Exp: 3/6	2015		
				tandard 7.00 L		ħ			
				luctivity Stand		- 1	1	015	
				TU Standard			,		
				U Standard		1/201	<u> </u>		
					<u> </u>	4/001	O TYPE	<del></del>	r
DATE (yy/mm/dd)	TIME (hr:min)	STD (A, B, C)	STD VALUE	INSTRUMENT RESPONSE	% DEV	(YES, NO)	(INIT, CONT)	SAMPLER INITIALS	
dalis	0905	A	4.01	4-01	DEV	Yes.	IC	NED	рН
262101	i	В	7.00	7.00		1	1	1	pН
		С	1500	1500					Cond
				8.20					DO
				35.47					Temp
		D	0.1	0.1			T		Turb
		E	15	15.0					Turb
	ı							_	
5/20/14	0930	Α	4.01	4.01		Yes	ICV	Me	ρН
	1	В	7.00	6.99					рН
		С	1500	1500					Cond
			-	8.17					DO
				25-89					Temp
		D	0.1	0.10					Turb
		Ε	15	15.0					Turb
	_							,	
52014	1300	Α	4.01	4.05		Yes	CC	HO	рН
4	1	В	7.00	7.02		1			pН
		С	1500	1503					Cond
				7.32					DO
				29-49					Temp
		_ D	0.1	0.09					Turb
		E	15	14.9			<u> </u>	<u> </u>	Turb
				J					
		A	4.01		ļ ———				pН
		В	7.00					1	pН
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<del></del>									Temp
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