SUMTER COUNTY (CLOSED) LANDFILL QUARTERLY GROUNDWATER MONITORING REPORT Quarter IV (November) 2013

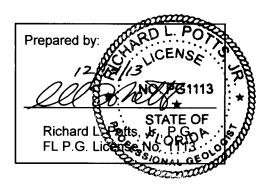
Prepared for:

SUMTER COUNTY SOLID WASTE DEPARTMENT SUMTER COUNTY, FLORIDA

Prepared by:

THE COLINAS GROUP, INC.

377 Maitland Avenue, Suite 2012 Altamonte Springs, Florida 32701



December 2013

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		and the second s
City Lake Panasoffikee	Zip <u>33538</u>	County Sumter
Telephone Number (352)-793-3368	E-mail addre	ss jackey.jackson@sumtercountyfl.gov
(2) WACS_Facility 53008		
(3) DEP Permit Number <u>22926-004-SF</u>		
(4) Authorized Representative's Name Jackey Jackson		Title Ass't Director Public Works
Address 319 E. Anderson Avenue		
City Bushnell	Zip <u>33513</u>	County Sumter
Telephone Number (352)-793-0240	E-mail addre	ss jackey.jackson@sumtercountyfl.gov
(5) Type of Discharge NA		
(6) Method of Discharge NA		
I certify under penalty of law that I have personally ex document and all attachments and that, based on my inq information, I believe that the information is true, accurat for submission of false information including the possibility	uiry of those individuate, and complete. I a	als immediately responsible for obtaining the im aware that there are significant penalties
Date Owner of Authorize	d Representative's Si	onahire
Date Owner or Authorized	a representative s of	·
PART II QUALITY ASSURANCE REQUIREMENTS		
Sampling Organization Name & DOH # The Colinas Gro	up, Inc. / 870148G/3	
Analytical Lab Organization DOH # <u>E53076</u> E84589 E	82574	
Lab Name Advanced Environmental Laboratories, Inc.		
Address 6601 Southport Parkway, Jacksonville, Florida	32216	
Phone Number (904)-363-9350		
E-maîl Address msantiago@aellab.com		

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

THE COLINAS GROUP, INC.

HYDROGEOLOGISTS & ENGINEERS

January 10, 2014

Mr. F. Thomas Lubozynski, P.E.

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

Subj: Quarter IV (November) 2013 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 IV (November) 2013

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

Richard L. Potts, Jr. Principal Consultant,

FI. P.G. Reg.

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 IV (November) 2013

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- 3. Field Sampling and Testing Logs
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Sumter County (Closed) Landfill Quarterly Groundwater Monitoring Report Quarter IV (November) 2013

INTRODUCTION

The Colinas Group, Inc. (TCG) has reviewed the groundwater monitoring well sampling and analytical results for the Quarter IV (November) 2013 sampling event at the Sumter County (Closed) 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 FDEP Long-Term Care Permit #22926-003-SF.

In accordance with Specific Condition 16d of the facility Long-Term Care Permit, sampling and analytical chemical parameters for this sampling event included the parameters listed in 40 CFR Part 258, Appendix I. The expanded list of analytical parameters is required by permit for the fourth quarter of each year.

SAMPLING EVENT

The Quarter IV 2013 sampling event at the Sumter County Landfill occurred during the period November 15 - 19, 2013. 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.

Water table depth measurements in each facility groundwater monitoring well and piezometer were recorded on November 15, 2013. These measurements were used to develop 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.

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. A summary of analytical results is presented on Table III.

RESULTS

Field Tested Parameters

Results of field testing completed at groundwater monitoring wells for the Quarter IV 2013 sampling event are summarized in Table I. Field tests were completed in strict accordance with FDEP SOP requirements.

Ηq

The field testing results indicate pH of groundwater in the uppermost aquifer was within the FDEP secondary standard (6.5 - 8.5 pH units) at seven (7) of the nine (9) groundwater monitoring wells sampled during the November 2013 event. 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-4B**) produced groundwater with a pH above the upper FDEP range at 9.16 pH units. This well has produced pH values above 8.5 since sampling of the well began in Quarter II of 2006. Monitoring well **MW-11** reported pH below the range at 6.28 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 nine (9) monitoring wells varied through a narrow range, from a low of 24.39 C at well **MW-8** to 27.34 C at **MW-2**.

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 monitoring well **MW-6A**. Most of these wells typically produce groundwater with dissolved oxygen levels above 20% saturation.

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 117 umhos/cm to 896 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 each of the nine (9) wells.

Regulatory Exceedances

A summary of groundwater laboratory analytical results that exceeded the regulatory level for the particular parameter in the Quarter IV 2013 sample set is presented in Table III. As shown, five (5) parameters were reported for certain monitoring wells at concentrations that exceed applicable regulatory levels. Exceeded analytical parameters were aluminum, iron, manganese, nitrate nitrogen and total dissolved solids (TDS).

Aluminum

Aluminum was reported in water samples from one monitoring well, **MW-9A**, at 250 ug/l, slightly above the Florida Secondary Drinking Water Standards (FSDWS) MCL of 200 ug/l.

Iron

Dissolved iron was detected in one monitoring well at a concentration above the FSDWS MCL of 300 ug/l. Iron was reported at 1,600 ug/l at detection well **MW-9A** and was not detected above the laboratory method detection limit at seven (7) wells.

Manganese

Manganese was reported at a concentration above the FSDWS MCL of 50 ug/l at monitoring well **MW-9A** at 100 ug/l. Manganese was reported at seven (7) other monitoring wells, including background well **MW-6A**, at lower concentrations ranging from 0.41 ug/l to 17 ug/l.

Nitrate Nitrogen

Nitrate was reported above the 10 mg/l FPDWS MCL at monitoring well **MW-4A** at 12 mg/l. An elevated nitrate concentration, less than the MCL, is reported for background monitoring well **MW-6A** at 5.2 mg/l. Remaining detection wells reported nitrate at values less than the background level.

TDS

TDS was reported at 510 mg/l at well **MW-9A**, slightly above the 500 mg/l FSDWS MCL. Remaining monitoring wells reported TDS in the range of 66 mg/l to 350 mg/l.

No other exceedance of a parameter regulatory concentration 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 the 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** (22 mg/l - 24 mg/l) appear slightly elevated as compared to the other wells. The SDWS MCL for chloride in groundwater is 250 mg/l.

Sodium also appears slightly higher at monitoring wells **MW-4**, **MW-4A** and **MW-9A** (19 mg/l - 28 mg/l) as compared to background and other detection wells. The PDWS MCL for sodium is 160 mg/l.

40 CFR Part 228 Appendix I Volatiles

Annual analyses for 40 CFR Part 258 Appendix I parameters were completed for this sampling event. As indicated on the attached laboratory reports of analyses from AEL and summarized in Table III, none of the Appendix I volatile organic compounds were detected above the laboratory method detection limits in groundwater samples from the facility groundwater monitoring wells. Laboratory detections limits are less than the Chapter 62-777, F.A.C. Groundwater Cleanup Target Level for each respective parameter.

SUMMARY AND RECOMMENDATIONS

Chemical characteristics of groundwater monitored at the Sumter County Landfill are reported for the Quarter IV (November) 2013 sampling event. Exceedances of certain constituent regulatory maximum concentration levels (MCLs) for analtyical constituents are reported at specific monitoring wells for aluminum, iron, manganese, nitrate nitrogen and total dissolved solids (TDS).

Elevated **dissolved oxygen** (DO) levels were measured in four of the nine groundwater monitoring wells, including the facility background monitoring well **MW-6A** and up-gradient well **MW-8**. These wells routinely produce groundwater with elevated DO levels. Field sampling methods do not appear to be the source of elevated DO in collected water samples.

Aluminum was reported by the laboratory at concentrations above the FSDWS MCL (200 ug/l) at well **MW-9A**. Aluminum has routinely been reported above the MCL in monitoring wells at the Sumter County closed landfill, including background well **MW-6A**. The most likely source of dissolved aluminum in groundwater is naturally-occurring aluminum-silicate clay minerals occurring near the top of rock throughout the landfill property.

Iron was reported above the FSDWS MCL (300 ug/l) at monitoring well **MW-9A**. **Manganese** was also reported above the FSDWS MCL (50 ug/l) 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 FPDWS MCL (10 mg/l)at monitoring well **MW-4A** at 12 mg/l. Background well **MW-6A** continues to report elevated nitrate levels at values less than the MCL.

Volatile organic compounds (VOCs) were analyzed as part of this monitoring event in accordance with the annual requirements of the landfill's Long-Term Care Permit. None of the parameters listed in 40 CFR Part 258 Appendix I were detected by the laboratory in any of the monitoring well samples.

Considering the historical lack of significant VOC detections in groundwater at the landfill, we recommend that Sumter County consider requesting a minor permit modification from the FDEP to delete the requirement for annual VOC sampling and analysis specified in the landfill's Long-Term Care Permit.

As the Sumter County Closed Landfill is an "existing installation" as defined in Rule 62-520.420(1), F.A.C., we further recommend that Sumter County request modification of the Long-Term Care Permit to delete the requirement for sampling and analysis of parameters regulated under the Florida Secondary Drinking Water Standards.

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FIELD PARAMETER RESULTS SUMMARY
SUMTER COUNTY (CLOSED) LANDFILL
SUMTER COUNTY, FLORIDA

Quarter IV (November) 2013

Sampling Point	Temp. (C)	Dissolved Oxygen (mg/l)	рН	Specific Conductance (umhos/cm)	Turbidity (NTU)
MW-2	27.34	5.75	7.05	214	0.69
MW-4	26.32	0.63	7.29	500	0.77
MW-4A	25.94	0.92	7.15	585	1.76
MW-4B	25.60	6.56	9.16	117	3.01
MW-6A	24.86	7.11	7.92	246	8.93
MW-8	24.39	6.62	7.47	314	0.36
MW-9A	25.06	0.22	6.55	896	12
MW-10	25.30	0.89	6.98	558	3.3
MW-11	25.89	1.38	6.28	324	9.14

Notes: 1). **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, FLÓRIDA Quarter IV (November) 2013

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	26.29	43.81
MW-2	68.96	24.95	44.01
MW-2A	71.98	28.04	43.94
MW-4	70.33	26.41	43.92
MW-4A	75.49	31.60	43.89
MW-4B	73.49	29.66	43.83
MW-4C	70.64 <u>a</u> /	26.87	43.77
MW-4D	70.20 <u>3</u> /	26.32	43.88
MW-6A	77.48	33.08	44.40
MW-7	72.93	28.95	43.98
MW-8	68.63	23.81	44.82
MW-9	72.62	28.58	44.04
MW-9A	75.14	31.05	44.09
MW-10	68.14	23.97	44.17
MW-11	70.02	26.17	43.85

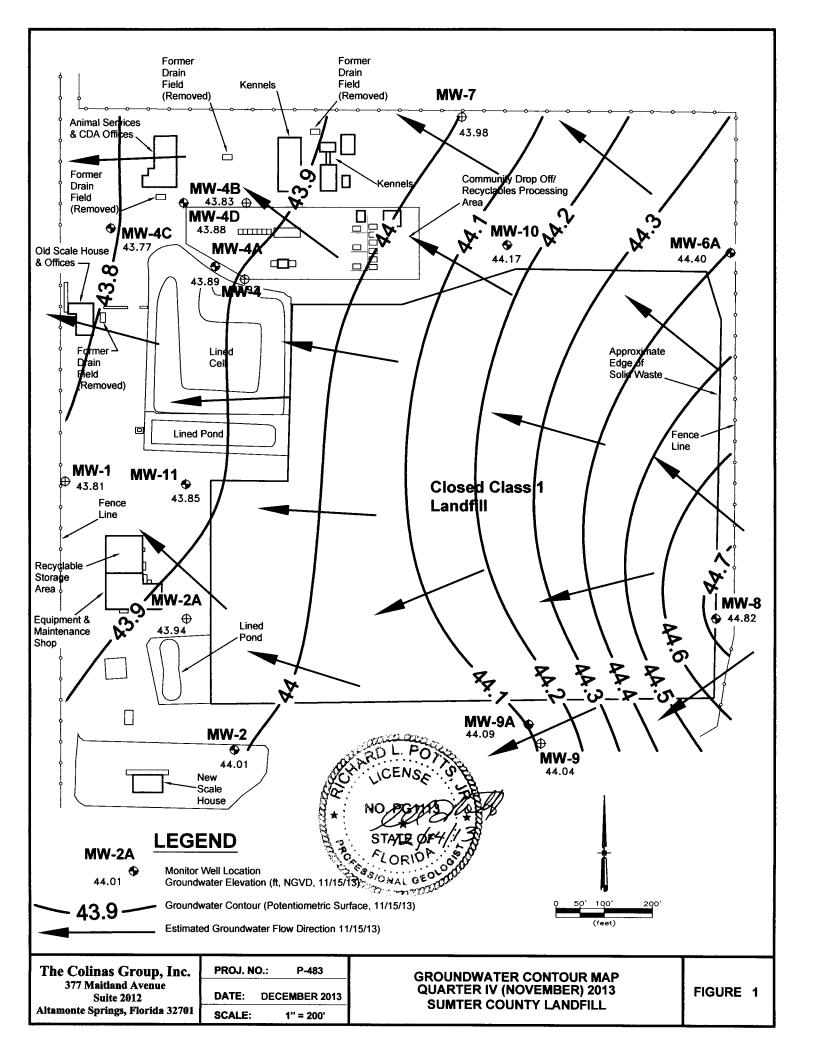
Notes: 1/ Measuring Point is top of PVC well casing.
2/ Water levels recorded on November 15, 2013.
3/ New post-wellhead repair TOC elevation (Steven B. Wiley, PSM, August 31, 2013)

TABLE III **SUMMARY OF LABORATORY RESULTS SUMTER COUNTY (CLOSED) LANDFILL QUARTER IV (November) 2013**

Parameter	units	MW-2	MW-4	MW-4A	MW-4B	MW-6A	MW-8	MW-9A	MW-10	MW-11	GCTL
Ammonia	mg/l	BDL	0.02	BDL	BDL	BDL.	0.01	0.66	BDL	BDL	2.8
Aluminum	ug/l	BDL	BDL	BDL	190	BDL	BDL	250	BDL	79	200
Antimony	ug/l	0.51	0.24	0.12	0.14	0.090	0.081	0.11	0.30	0.61	6
Arsenic	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	0.80	BDL	BDL	10
Barium	ug/l	14	6.9	12	3.7	2.3	3.4	16	11	5.2	2,000
Beryllium	ug/l	BDL	0.16	4							
Cadmium	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	0.92	0.61	2.3	5
Cobalt	ug/l	BDL	0.60	BDL	BDL	BDL	BDL	24	BDL	BDL	420
Copper	ug/l	0.97	1.3	1.4	0.70	14	0.19	3.2	0.39	1.8	1,000
Chloride	mg/l	BDL	11	24	2.0	6.3	5.9	22	7.8	4.8	250
Chromium	ug/l	BDL	0.97	1.2	2.0	3.3	3.0	7.9	BDL	1.3	100
Fluoride	mg/l	0.13	0.12	BDL	BDL	BDL	BDL	BDL	0.080	0.090	4
Gross Alpha	pCi/l	1.0 <u>+</u> 0.6	5.6 <u>+</u> 1.7	3.0 <u>+</u> 1.0	1.7 <u>+</u> 0.7	1.2 <u>+</u> 0.8	1.5 <u>+</u> 1.0	8.1 <u>+</u> 1.7	11.6 <u>+</u> 2.1	6.3 <u>+</u> 1.4	15
Iron	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	1,600	93	BDL	300
Lead	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	0.17	BDL	BDL	15
Manganese	ug/l	0.60	6.3	1.6	BDL	0.41	1.3	100	17	6.4	50
Mercury	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	0.015	0.020	BDL	2
Nickel	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	12	BDL	BDL	100
Nitrate, as N	mg/l	2.0	4.6	12	2.2	5.2	1.8	0.22	1.6	4.8	10
рН	s.u.	7.05	7.29	7.15	9.16	7.92	7.47	6.55	6.98	6.28	6.5-8.5
Radium -226	pCi/l	<0.7 <u>+</u> 0.4	1.9 <u>+</u> 0.7	1.3 <u>+</u> 0.6	0.5 <u>+</u> 0.3	1.1 <u>+</u> 0.6	1.0 <u>+</u> 0.6	4.8 <u>+</u> 1.1	2.2 <u>+</u> 0.8	3.2 <u>+</u> 0.9	
Radium- 228	pCi/l	<1.0 <u>+</u> 0.7	<1.0 <u>+</u> 0.8	<1.0 <u>+</u> 0.8	<1.0 <u>+</u> 0.7	<1.0 <u>+</u> 0.8					
Selenium	ug/l	BDL	50								
Silver	ug/l	BDL	100								
Sodium	mg/l	2.1	28	19	7.4	2.8	4.3	21	6.3	7.0	160
TDS	mg/l	130	300	350	66	140	200	510	320	200	500
Thallium	ug/l	0.070	0.11	0.20	BDL	BDL	BDL	0.21	0.16	0.15	2
Vanadium	ug/l	0.99	11	5.5	13	7.6	8.3	2.9	10	7.7	49
Zinc	ug/l	12	12	13	12	11	11	16	13	15	5,000

Notes: 1). BDL means below laboratory method detection limit

Bold lettering indicates result exceeds GCTL
 GCTL is Chapter 62-777, F.A.C. Groundwater Cleanup Target Level



FIELD LOG

PROJ# <u>9-483</u>	NAME: Dale Clayfor
PROJECT	() / '
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LOCATION: Santerille FC	

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		2(22)	
	MW-1	26.09	
	MW-d	34.6()	
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!- .	1111-41	3/100'	
	MW-48	39.66'	
	MW-4C	26.87'	
	MW-40	a6.3a'	
<u></u>	MW-6A	33.08'	
<u> </u>	1MW-7	38.95'	
. <u> </u>	MW-8	<u> </u>	
	MW-9	38,58	
	MN-9A	31.05	
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	t if applicable)			•				_		
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MW-2	2	PE	1 Ltr	HN03	None		_	GrossAlpha,		APP
	1	PE	250 mL	H2S04	None			RA226RA228 Total Ammo	nia	APP
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66	1 1	PE	500 mL	None	None			Chloride, Fluo	ride	APP
**						1	- :	Alitrata TDC	,	APP
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HEMARKS: Set dedicated 1/4" PE tubing at ~ 27'6tocand storted pumpat.06										ESP
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Het.:	Set ded	i cased	1/4 ·· F	HCLMones	at ~ 2					ESP
1115: 1115:	Set ded ofm. WL 25	icated 10° at	114 ·· F	HCLMonex 2E fubing m, GN;	s clear	•	cond	storte	d pum	ESP
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1198: 1 1112: 1112:	Set ded SPM. WL 25.	icated 10°at 10°at	114 F . 06 B 06 B	HCLMonex PE tubing m, GN; m, GN;	s clear down i	s 54.	able. D	startes 0 is his	d pums	ESP .06
198: 1 117: 117:	Set ded 9PM. WL 25.1 WL 25.1 MS/L 16	cated 10° at 10° at.	114 A . 06 BP +4 P: 4	HOLINOMER PE fubing Im, GN; Im, draw 21-forth:	s clear down is	s 54.	able. D	startes 0 is his	d pums	ESP .06
198: 1 1112: 1112:	Set ded gpm. WL 25.1 WL 25.1 MS/L 16 Criteria	cated 10 at 10 at 10 at 10 at 10 at	1/4 A 06 3P 06 3P typ: 4	HOLINOMAK DE fubing m, GN; m, draw el forth; elessory.	s clear down is	s 54. W:U	able. Duse of	oish:	d pump shat stasil	1.26 2.204
198: 1 1112: 1112:	Set ded 9PM. WL 25.1 WL 25.1 WL 25.1 WL 25.1 WL 25.1	10 at 10 at for 0	14 A 06 3P 06 3P typ: 4 0 if w	HOLINOMAN PE fubing Im, GN; Im, draw; elforth; elessory; elessory;	s clear down is well.	s sta	able. Duse of	oishinal	shat stasil	Pation 1.26 2.24 Louds
198: 1 1112: 1112:	Set ded 9PM. WL 25.1 WL 25.1 WL 25.1 WL 25.1 WL 25.1	10 at 10 at for 0	14 A 06 3P 06 3P typ: 4 0 if w	HOLINOMAN PE fubing Im, GN; Im, draw; elforth; elessory; elessory;	s clear down is well.	s sta	able. Duse of	oishinal	shat stasil	Pation 1.26 2.24 Louds
Hat: 1115: 114: 1138: 1	Set ded 9PM. WL 25.1 WL 25.1 WL 25.1 WL 25.1 dropp.	cated 10 at	14 A 06 3P 06 3P 14 P: 4 0 6 98	Howard Holdman (GN): In GN; In draw (GN): In dra	s clear down is swell skill his	s sta	able. Duse of the day	oishinal ugk, b	shat stasil	Pation 1.26 2.24 Louds
Hat: 1115: 164: 1/28: 1 1133: Notes: 1)	Set dad 9PM. WL 25.1 WL 25.1 WL 25.1 WL 25.1 Vropp. Used a graduate Packed samples	cated 10' at 10'	1/4 " F .06 SP .06 SP .44 P: W .06 SF .1 Pursy et and timed to ntely upon colle	HCLINOMER PE fubing Im, Gwi Im, draw In draw	s clear down is swell still his stabiliz	s states of all or in	able. Duse of use of today All other	oishinal agk, b	shat stabil atis s meter	esp 0 at.06 1.26 2014 1014 1014
Hat: 1115: 1104: 110	Set dad 9PM. WL 25.1 WL 25.1 WL 25.1 FOPP. Used a graduate Packed samples L CODES:	cated 10' qt 10' qt 10' qt 10' qt 10' at	.06 gP 06 gP 44 P: 4 0 if w 0 6 gF 1 Pursy et and timed to tately upon colle glass; CG =	HCLINOMER PETOSING IM, GN IM, draw IM, dra	s clear down in s well still his stabiliz es Stable polyethylone;	S States of all or in	able. D use of today All Other ropylene; s=s	Oiship etional mg/c, 6 er para	shat stasil atis s meter	ESP Pat.06 Tation locky rare or (Specify)
Hat: 115: 104: 1/38: 1 1133: Notes: 1) 2) MATERIA SAMPLING	Set dad 9PM. WL 25.1 WL 25.1 WL 25.1 WL 25.1 Voppin Used a graduate Packed samples L CODES: GPURGING	cated 10' at 10'	.06 gP 06 gP 1 P; C 0 if w 0 6 gf 1 Purgu of and timed to ately upon colle Glass; CG = istaltic Pump;	HCLINOMER PE fubing Im, Gwi Im, draw In, d	s clear down is swell still his stabiliz	S States of the	Lend use of hold v All other ropylene; s = s	Oiship etional mg/c, 6 er para	shat stabil atis s meter	ESP Ont.06 Date Zation Loudy Grane Grane Grane
Motes: 1) Notes: 1) MATERIA SAMPLINI EQUIPME Notes: 1. 7	Set dad 9PM. WL 25. WL 25. WL 25. WL 25. WL 25. Used a graduate Packed samples L CODES: GPURGING NT CODES: I The above do not	cated 10 at 10	1/4 " F .06 3 P 06 3 P 44 P: 4 0 if w 0 b 9 f 1 Pursy et and timed to thely upon colle Glass; CG = istaltic Pump; et Flow Peristall e information re	HCLINOMER PE fubing Im, Gwi Im, draw In, d	SCLEAR SCLEAR SCLEAR SWELL SHILL SHILL SHILL SHILL SHILL SHILL SHILL POLYMINIONO; BP = Blacker Pun Straw Method (Tut -160, F.A.C. 2. S	S 5/Will 9 h at 8 r i PP = Polypinp; ESI Sing Gravity I TABILIZATIO	AL OHRI TOPYIONE: S = S P = Electric Subm DIN CRITERIA FO	0 is his ational mg/k, b ex Para illicone; T = Te hersible Pump; Vacuum Trap; RRANGE VARIA	of one feather (strion of LAST	ESP Pat.06 P

SITE	04 0-				1	SITE	0	-:			
	Sumter Co	unty Lan	atili	T		LOCATION:	Sumterv	/IIIe, FL	5.75	0/10	
WELL NO:	MW-4			SAMPLE	ID: MW-		T A		DATE:	8/13	
22	DVC	[4	1037	14511.00		GING DA		EDTU 34 143	PURGE PUMP TY	(DE	
WELL 2"		TUBING .		DEPTH:	REEN INTE feet to	rval. føet	TO WATER	EPTH 36.4) R (feet):	OR BAILER: - EG		
				1			l	X WELL CAPA			
	t if applicable)		,	26 251		24 . / :			Ha = a # a - 4	15	84 gallons
EQUIPMEN	NT VOLUME PL	IRGE: 1 EQU	= (IPMENT VOL. =	36.35'	ieet UME + (TUE	ING CAPACI	Y X	TUBING LENG	gallons/foot TH) + FLOW CELL \	OLUME	y gallons
	t if applicable)		_								
INUTIAL DU	IMP OR TUBIN	1 Equip	VOI =	- 022 ga		-996" gallo		feet, PURGIN		allons = COTAL VOLUM	gailons
	WELL (feet):	3	DEPTH IN W		,	INITIATI	. —	ENDED		PURGED (galk	
	VOLUME	CUMUL. VOLUME	PURGE	DEPTH TO	pН	TEMP.	COND.	DISSOLVED	TURBIDITY	COLOR	ODOR
TIME	PURGED	PURGED	RATE	WATER	(standard units)	(°C)	(uS/cm)	OXYGEN (mg/L)	(NTUs)	(describe)	(describe)
2/21	(gallons)	(gallons)	(gpm)	(feet)		37.33	500		0.40	(1-	0 -0.5
1330	1.60	1.60	105	26.56	7.30	26.37	500	0.63	0.80	Clear	Cragania
1436		1.80	105	36.56	334	3637	500	0.63	8,33	Time	Same
		'			707	0000	340	0.03		Carr	
	<u> </u>	ļ	_		_	ļ		ļ	41. 51		<u> </u>
	 	 			 	 			No SI	ream	
	 		 -			†		 			
WELL CAR	PACITY (Gallon	o Bor Footi: f	75" - 0.00:	1" = 0.04;	1.25" = 0.0	6; 2" = 0.10	5; 3" = 0.3	37; 4" = 0.65;	5" = 1.02; 6"	= 1.47: 12"	= 5.88
			t.). 1/8" = 0.00		= 0.0014;	1/4" = 0.002	6; 5/16" =		= 0.006; 1/2" = 0		= 0.016
						LING DA	ATA				
	BY (PRINT) / A aytor, Coli			MPLER(S)	GNATURE	s:		SAMPLING	1437	SAMPLING	500
		nas Grou		MINE PUBL	Can p	110/5	-100 mL	INITIATED AT		ENDED AT:	
PUMP OR DEPTH IN	TUBING WELL (feet):			OW RATE IT	_			MATERIAL CO	DE: PE	,	
FIELD DEC	CONTAMINATIO	ON (V)	WL FIL	LD-FILTER	ED: Y		ER SIZE: _	μπ	DUPLICATE:	Y	7
		CONTAINER		tration Equip	ment Type:					<u> </u>	<u>, </u>
		FICATION	any		SAI	MPLE PRESE	RVATION		INTENDED		AMPLING
SAMPLE		NE MATEI	RI VOLUME	PRESER		TOTAL V		FINAL	ANALYSIS AND	OR E	QUIPMENT CODE
CODE	RS	CODI	=	US	ED A	DDED IN FIEL	D (ML)	рН			
MW-4	2	PE	1 Ltr	HN	03	None			GrossAlpha, RA226RA228	ARP	ESP A
66	1	PE	250 mL	H25		None			Ammonia	AAR	ESPOC
	11	PE	250 mL	HN	03	None			Metals Chloride,Fluori	HAP)	ESPIC
44	1	e PE	500 mL	No	Vathio	None			Nitrate, TDS	ide, APP	ESP-OC
66	3/2	3 CG	40 mL		None	None			8260/8011	BAR	ESP _E OC
REMARKS		a.l	1 1	0 - 1	1		24 · K	Lacan	101	10	
1400			ed 114"	12+	norvy	at /	70 0	700	d start	es pur	ngs as
	1059					_					
1415:	WL 2	6.56	at.05	- 9pm	1,6 u	is U	ear.				
			-	-							
700 -	~- a	י קונייט	でアー・ひろ	DPM	100	indon	141 15	Sta66	4		
M31:	WL 21	6.56 9	t.05,	3pm	911	Para	neter	Samo S	table e-	3 n Ca	~
			_		•	,	,	4.0-,	,		3
			ket and timed to		rge volumes	:					
2) Packed samples on ice immediately upon collection MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)											
SAMPLING/PURGING APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump											
				<u>'</u>					= Vacuum Trap; OR RANGE VARIAT	O = Other (
CONSECUT	TIVE READINGS	S (SEE FS 221	2. SECTION 3)I	H: + 0.2 units	s: Temperat	ure: +0.2 ded	rees C: Spe	cific Conductano	e: +5%: Dissolved	Oxygen: all n	eadings < 20%
aturation (s	see Table FS 22	00-2), optional	lly, ± .02 mg/L oi	± 10% (whice	chever is gre	ater); Turbidit	y: all reading	gs ≤ 20 NTU, opti	onally ± 5 NTU or ±	10% (whichev	er is greater)

SITE													
		unty Landi	111		ID: MW-		Sumterv	ille, FL	L DATE: . L	1.			
WELL NO:	WW-4A			SAMPLE		GING DA	TA		DATE:	1 113			
WELL 2"	PVC	TUBING 3/8	277	WELL SCE	REEN INTE			PTH.31.60	PURGE PUMP TY	/PF			
DIAMETER	(inches):	DIAMETER (in	nches):	DEPTH:	feet to	feet	TO WATER	R (feet):	OR BAILER: ES				
WELL VOL	UME PURGE:	1 WELL VOLUI	WE = (TOTA	AL WELL DEPT	H - STA	TIC DEPTH T	WATER)	X WELL CAPA	CITY				
Orny na Out	if applicable)	WellVo	(=(45.23'	feet	31-60	(feet)	x . 16	gallons/foot	=2.180	08 gallons		
	IT VOLUME PL	RGE: 1 EQUIP				BING CAPACIT	YX	TUBING LENGT	H) + FLOW CELL \	VOLUME			
(only fill out	(only fill out if applicable) 1 Equip Vol = .02 gallons + (.006 gallons/foot X feet) + gallons = gallons												
INITIAL PU	INITIAL PUMP OR TUBING 'FINAL PUMP OR TUBING 'PURGING PURGING TOTAL VOLUME												
DEPTH IN	WELL (feet):	CUMUL.	DEPTH IN I	WELL (feet): / DEPTH	~330	INITIATE	D AT: 110	1 -	T: //431 F	PURGED (gall	ons): 3.7)		
TIME	VOLUME PURGED	VOLUME	PURGE RATE	TO	pH Ystandard	TEMP.	COND.	DISSOLVED OXYGEN	TURBIDITY	COLOR	ODOR (deported)		
	(gallons)	PURGED (gallons)	(gpm)	(feet) 4	5 49:195	2595	(us/cm)	(mg/L)	(NTUs)	(describe)	(describe)		
114	4.25	4.75	125	7.00	+18 d	1112	12-87	Claser	Ngne				
1143	15	5.95	-97	3/25	7.15	32.92	227	7.02	1,80	Ugar	10/-		
114)	-3-	5.70	` <i>O</i> -)	Dr. 1)	<u> </u>	D>74	30)	0.70	1.10	Clar	100ma		
				 					Nost	ean	 		
		 				<u> </u>			 		-		
WELLCAR	ACITY (Gallon	Per Foot): 0.7	F" = 0.02	1" = 0.04;	1.25" = 0.0	06; 2" = 0.16	3" = 0.3	7; 4" = 0.65;	5" = 1.02; 6"	= 1.47; 12°	" = 5.88		
		ACITY (Gal./Ft.)			= 0.0014;	1/4" = 0.002	5; 5/16" =		0.006; 1/2" = 0		= 0.016		
						PLING DA	ATA	· · · · · · · · · · · · · · · · · · ·					
	BY (PRINT) / A aytor, Coli	nas Group	Inc.	AMPLER(S) S		es lak	Ó_	SAMPLING INITIATED AT:	1146	SAMPLING ENDED AT:	1158		
PUMP OR	TUBING WELL (feet):	~ a		LOW RATE (m		(e): < 250	~100 m	TUBING MATERIAL COI	DE: PE				
	CONTAMINATIO		F.	IELD-FILTERE	D: X		ER SIZE: _	µm	DUPLICATE:	Y /	()		
THE BEC	SAMPLE	CONTAINER	F	Filtration Equipm		MPLE PRESEI	RVATION						
SAMPLE	#	ICATION MATERI	1	PRESERI		TOTAL V		FINAL	INTENDED ANALYSIS AND/		SAMPLING QUIPMENT		
CODE	CONTAI	NE AL CODE	VOLUME	USE		ADDED IN FIEL	_	pH	METHOD		CODE		
MW-4A		PE	1 Ltr	HNO)3	None			GrossAlpha,		ESP		
16	1	PE	250 mL	H2S	04	None			RA226RA228 Total Ammon	ia	ESP		
- 11	1	PE	250 mL	_ HNC)3	None			Metals	ida	ESP		
44	1	γ PE	500 mL	- Nor	e thio	None	1	-	Chloride, Fluori Nitrate, TDS	rue,	ESP		
j4	3/7	CG CG	40 mL	HCLAN		None		- Ac	8260/8011		ESP		
REMARKS	The	222 /22	SPA	and dec	d: c_1	13/8	· pg +	ubino I	~~ 33.	5'6	Locand		
						2010	, – ,	9 1		,			
1	Started Pumpat is gpm. 1130: WL 31.84 at 5 gpm. GW is turbid at 41 NT Vs.												
I.					• -	. ,	-			10 - 1			
1154.	3.22 m	al 64	57 /4 	1 NTU	Sirea dicop	duud-f	-low-	16.92.3	gpm. D	יי צייטי	us n ag		
1138: WL 31.75 at ,2500m; DO has dropped to within range. All other													
forameters are stable or in rouge.													
1140: WL31.75 at -25 gen drawdown: 5 stable. Notes: 1) Used a graduated 5 gallon bucket and timed to measure purge volumes													
	2) Packed samples on ice immediately upon collection MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)												
·		APP = After Pen RFPP = Reverse	istaltic Pump	o; B = Bail	ler, B	P = Bladder Puraw Method (Tu	mp; ES	P = Electric Subm		PP = Perista	ltic Pump		
- AGIL ME				enic runip,			any Gravity		ruvuun 11ap,	O = Other	Openiy)y		

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						SITE					
	Sumter Co	unty Land	lfill			LOCATION:	Sumter	ville, FL			
WELL NO:	MW-4B			SAMPLE	ID: MW-				DATE:	19/13	
		1				GING DA			*		
WELL 2'		TUBING 3/		WELL SO	REEN INTE feet to	RVAL feet	TO WATE	EPTH 29.68	PURGE PUMP TY OR BAILER: ES		
WELL VOI		1 WELL VOLU						X WELL CAPA		<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>	
	t if applicable)						,			10	. .
EOI NDMEI	NT VOLUME PU	k11001	= (38.49'	feet -	29.6	feel TY X) X : 16	gallons/foot H) + FLOW CELL \	= 1,40°	gallons
	n i VOLUME Pu It if applicable)	IKGE: 1 EQUIP	PMENI VOL.	= PUMP VUL	UME + () UD	ING CAPACI	IY X	I UBING LENG I	H) + FLOW CELL (/OLUME	
		1 Equip V						feet) +	galions =		gallons
	IMP OR TUBING WELL (feet): 🎤	~31-5	FINAL PUM	P OR TUBING VELL (feet):	31X	PURGII	NG ED AT:	PURGINI ENDED	G 12-32	TOTAL VOLUM	ns):5,00
DEFINIA		CUMUL.		DEPTH	DH	INTITAL	•	DISSOLVED	11. 10-20 1	-UKGED (gailo	113). 3 4 6 0
TIME	VOLUME PURGED	VOLUME PURGED	PURGE RATE	TO WATER	(standard	TEMP.	COND.	OXYGEN	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
	(gallons)	(gallons)	(gpm)	(feet)	units)	10)	Justin	(mg/L)	(14103)	(Gescribe)	(UBSCHIDE)
1208	4.00	4.00		22.80	9.18	92-29	115	6.92	3.89	Claar	None
1930	15	4.50	1.25	29.80	9.17	32.22	11.6	6.73	2.95	Goor	None
100	1-3-	3.00	4 05	01.80	9.16	22-00	117	6.56	3.01	Clar	None
~50			 	 				 		<u> </u>	<u> </u>
									Nosh	oan	
		ļ			ļ		 .			<u> </u>	
	 			ļ. 	-	 	ļ	 		 	
			 	 	-	 -	 	 		 	ļ
WELL CAI	PACITY (Gallon:	s Per Foot): 0.	75" = 0.02;	1" = 0.04;		-,					= 5.88
TUBING IN	ISIDE DIA. CAP	ACITY (Gal./Ft	:): 1/8" = 0.0	006; 3/16"		1/4" = 0.002 PLING D		= 0.004; 3/8" =	= 0.006; 1/2" = 0).010; 5/8°°	= 0.016
SAMPLED	BY (PRINT) / A	FFILIATION:	1.5	AMPLERION S			AIA	T	/3.5.3		
	aytor, Coli					11/2		SAMPLING INITIATED AT	/ 23 3	SAMPLING /	947
PUMP OR				AFTE RUM		Tiva	CE 100			ENDLD AT.	
DEPTH IN	WELL (feet):	N31		LOW RATE (MATERIAL CO	DE: PE		
FIELD DE	CONTAMINATIO	ON: (Y) N		ELD-FILTER Itration Equip		FILT	TER SIZE: _	µ m	DUPLICATE:	Y AN)
ļ	SAMPLE	CONTAINER		1		APLE PRESE	DVATION			$\overline{}$	
	SPECII	FICATION MATER	•		З <i>А</i> Л	HPLE PRESE	RVATION		INTENDED ANALYSIS AND		AMPLING
SAMPLE CODE	CONTAL		VOLUME	PRESER		TOTAL V DDED IN FIE		FINAL pH	METHOD	UR EG	QUIPMENT CODE
	RS	CODE		- 03			LD (IIIL)	pri	0		
MW-4E	3 2	PE	1 Ltr	HN	103	None			GrossAlpha, RA226RA228		ESP
16	1	PE	250 mL	H29		None			Total Ammon	ia	ESP
		PE	250 mL	HN		None			Metals Chloride,Fluori	ide	ESP
46	11	PE	500 mL	No	Cathle	None		-	Nitrate, TDS	uc,	ESP
fi Domestic man	3/2	CG	40 mL		None@<	None			8260/8011		ESP
REMARKS	Toco-	had ce	55P =		ladir-	ء لحد صا	18 - 1	05 1 L:	y tor	31.5.	5ta
1016:							(0)	LT2011	5 10 10		- 1 - 1
	and s	tarte.	gpur	upat	- 43 5	3 pm.					
1990;	Reduce	d flow	+0 ·	25 94	pm,	2; لمو	clea	ر مر ا			
1		•		_	`						
1224	We 29	1.80 at	.75	Pm.	100:5	high	at "	1.91 ms	K, but	a	_
100.	١ ٨٠٠	1 0	11.5		1.4	- 7.3 - 1	i.	· () • 9 ,	1 Course	E ont	- 25
1	Typ:	A1 4-00	mis u	ve II · I	N 11 6	se op	tona	11 5100	lization	100 ite	riq,
	tor 0	10 and	PH (1	P4 15 a	1+9.2	Oslu's	and a	150 54	yp: calto	. this i	sell).
	HIOLK	er Dara	em o lo	500	SICI	ر مرمر ه	1 /A	', حوال	1*		<i></i>
All Other paremeters are stable or in range.											
Notes: 1) Used a graduated 5 gallon bucket and timed to measure purge volumes											
2) Packed samples on ice immediately upon collection											
	MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropytene; S = Sillcone; T = Teflon; O = Other (Specify) SAMPLING/PURGING APP = After Peristatic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristatic Pump										
	EQUIPMENT CODES: RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; O = Other (Specify)y										
									OR RANGE VARIAT		
esturation (see Table FS 22	00-2), optionally	+ .02 ma/L o	r + 10% (whi	s, i erriperau chever is grea	ater): Turbidi	µees ⊂, sipi lv: all readin	as < 20 NTU. ooti	e: <u>+</u> 5%; Dissolved onally <u>+</u> 5 NTU or <u>+</u>	10% (whichev	×aumgs ≤ 20% er is areater)

SITE			Len		SITE	0	:11. F1				
	Sumter Co MW-6A	unty Land	1711 <u>1</u>	SAMPLE ID:		Sumter	ville, FL	L DATE: A . I	10/15		
WELL NO:	MIAA-OW				PURGING DA	ATA		DATE:	7/13		
WELL 2"	PVC	TUBING 3	18"	WELL SCREEN			EPTH 33.13	PURGE PUMP TY	'PF		
DIAMETER	(inches):	DIAMETER	(inches):	DEPTH:	feet to feet	TO WATE	R (feet):	OR BAILER: ES			
	UME PURGE: if applicable)	1 WELL VOL	UME = (TOTAL	. WELL DEPTH -	STATIC DEPTH	TO WATER)	X WELL CAPA	CITY			
only na out	и арриодою		= (50.84 ° fee	t-	feet	n ×	gallons/foot	=	gallons_	
		RGE: 1 EQUI	PMENT VOL. =	PUMP VOLUME	+ (TUBING CAPAC	ITY X	TUBING LENGT	H) + FLOW CELL \	OLUME X3	×1.335	
(only fill out if applicable) 1 Equip Vol = .02 gallons + (.006 gallons/foot X SO feet) + .125 gallons = .445 gallons											
1	MP OR TUBING	W47'	FINAL PUMP	OR TUBING	PURG	NG	PURGING	3 1 7	OTAL VOLUM	Ē ^	
DEPTHING		CUMUL.		ELL (feet): 🖊 🕻	PH INITIA	TED AT: 13	DISSOLVED	14121	PURGED (gallo		
TIME	VOLU ME PURGED	VOLUME PURGED	PURGE	WATER (Sta	andard (C)	ocCOND.	OXYGEN	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	
1.100	(gallons)	(gallons)	(дрт)	(feet) c	nus)	U	(mg/L)	(10,00)			
1408	16.5	16.5	1.92	33.15, 2.9	39 32-00		7.10	19.12	Clear	None	
1410	∵£ -	17.0	-37	33.15.79	73 25.00		7.06	8 93	Gar	None	
1710		1113		32.03 /	10 04.0K	040	711	10.13		0000	
						·		11.51	ļ . <u></u>		
			+			 	1	No SI	roan		
WELL CAP	ACITY (Gallons	Per Foot): 0.	.75" = 0.02;	1" = 0.04; 1.25	" = 0.06; 2" = 0.	16: 3" = 0.3	37; 4" = 0.65;	5" = 1.02; 6"	= 1.47; 12"	= 5.88	
TUBING IN	SIDE DÍA. CAP	ACITY (Gal./F	t.): 1/8" = 0.00	06; 3/16" = 0.0	014; 1/4" = 0.00	26; 5/16" =	= 0.004; 3/8" =	0.006; 1/2" = 0	0.010; 5/8 **	= 0.016	
SAMPLED I	BY (PRINT) / AI	FH IATION:	I SA	S MPLERYS) SIGNA	AMPLING D	AIA	1	4.0			
	ytor, Coli				miss		SAMPLING INITIATED AT:	1413	SAMPLING / ENDED AT:	425	
PUMP OR 1				APLE PUMP			TUBING				
	NELL (feet):	N45		OW RATE (fil pe LD-FILTERED:	valnute): < 250	ML TER SIZE:	MATERIAL CO μm	DE: PE			
FIELD DEC	ON TAMIN ATIO	N: ((Y) N		tration Equipment			μιι	DUPLICATE:	Y (N)	
		ONTAINER ICATION			SAMPLE PRES	RVATION		INTENDED		AMPLING	
SAMPLE I	#	MATER		PRESERVATI	VE TOTAL	/OL	FINAL	ANALYSIS AND/		UIPMENT	
CODE	CONTAIL	VE AL CODE	VOLUME	USED	ADDED IN FIL	LD (mL)	рH	METHOD		CODE	
MW-6A	2	PE	1 Ltr	HN03	None			GrossAlpha,		ESP	
"	1	PE	250 mL	H2S04	None			RA226RA228 Total Ammon	ia	ESP	
- 14	11	PE	250 mL	HN03	None		****	Metals Chloride, Fluori	do	ESP	
"	1 A		500 mL	None	None None	·		Nitrate, TDS	ue,	ESP	
REMARKS:	3/2	CG	40 mL	HCL/None	None			8260/8011		ESP	
	Inseni	ed SS	8 CB 18	and ded	icased 3	18-08	E +46: 4	o ton 4	15-6ta	c and	
1							-			_	
					n. GW i						
		wello	end re	quires o	war pur	97.08 11-	t a highe	v flow r	ate to	(Cea)	
1	+ up.			-	-						
1370:	WL 33	·21 at	.598	m, ful	bidity is	at 120	NTUS.	Continuin	no pur	30.	
1353'	1340: Tubidity is at 46 NTUS, reduced flow to 25 gpm.										
ILIAN'	1353! Turbidity is at 55 NTUS, WL 33.17 at ,25 9Pm.										
1-100.	1400: Turbidity is fluctuations was down to 25 Nuis, now back up to 50.										
outhours park NC 321) at 1) gpm. DO:5 high at 7.37 moke,											
	Notes: 1) Used a graduated 5 gallon bucket and timed to measure purge volumes 2) Packed samples on ice immediately upon collection (Over) but is typical for this investigation.										
MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PF = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)											
l l	SAMPLING/PURGING APP = After Peristaltic Pump; B = Baller, BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump EQUIPMENT CODES: RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; O = Other (Specify)y										
Notes: 1. Th	e above do not	constitute all t	he information r	equired by Chapte	or 62-160, F.A.C. 2. Imperature: ± 0.2 de	STABILIZATI	ON CRITERIA FO	R RANGE VARIAT	ION OF LAST	THREE	
saturation (se	e Table FS 220	0-2), optionali	y, <u>+</u> .02 mg/L or	± 10% (whicheve	r is greater); Turbio	ity: all reading	gs ≤ 20 NTU, optic	nally ± 5 NTU or ±	10% (whicheve	er is greater)	

SITE	Sumtor Co	untu Land	6 11		1	SITE	Sumtor	بنالم 13			
NAME: S	Sumter Co MW-8	unty Land	1111	CAMPLE	ID: MW-	LOCATION:	Sumer	ville, FL	DATE: 11/1	0/12	
WELL IVO.	11117-0			SAMPLE		SING DA	ΤΔ		DAIL III	8/12	
WELL 2"	PVC	TUBING 3/	8"	WELL SC	REEN INTE			EPTH 2384	PURGE PUMP TY	'PF	
DIAMETER		DIAMETER (DEPTH:	feet to	feet	TO WATE	R (feet):	OR BAILER: -ES		0
WELL VOL	UME PÚRGE:	1 WELL VOLU	IME = (TOTAL	WELL DEP	TH - STA	TIC DEPTH T	O WATER)	X WELL CAPA	CITY		
only mi out	if applicable)		= (43.24'	feet		fee	e) X	gallons/foot	_	gallons
	T VOLUME PU	RGE: 1 EQUIP	MENT VOL. =	PUMP VOL	UME + (TUB				H) + FLOW CELL V		> 1/00
(only fill out	if applicable)	1 Equip V	/ol =	333 00	t amount	902-6 900 gallo	no#oot V	412 " 60011	.125 g	orien e constan	tore 3340
INITIAL PUI	MP OR TUBING		FINAL PUMP	OR TUBING	}	PURGIN		43 feet) +		ailons = gal	
DEPTH IN L	NELL (feet): /	~38.	DEPTH IN WE	ELL (feet): ¿	<u>~38</u>	INITIATE	DAT:	6 ENDED A	T: 1240 F	PURGED (gallo	ns): (4 ()
TIME	VOLU ME	VOLUME	PURGE	TO	pH (standard	TEMP.	COND.	DISSOLVED OXYGEN	TURBIDITY	COLOR	ODOR
,,,,,,	PURGED (gallons)	PURGED (gallons)	(gpm)	WATER (feet)	units)	(°C)	(uS/cm)	(mg/L)	(NTUs)	(describe)	(describe)
1236	1.00	1.00		23-86	241	20.3)	3/3	6.22	0.83	Class-	None
1228	1,2	1.20		33.86	5.42	24.38	3111	6,79	8.42	Class	None
1340	. 2	1.40	1.	13.86°	ノイブ	24.39	314	6.62	0.36	There	None
,		<u> </u>	+					-	 	<u>'</u>	
									11056	2000	
									10000		
		 				-		-	-		
WELL CAP	ACITY (Gallons	Per Foot): 0.7	75" = 0.02; 1	" = 0.04;	1.25" = 0.00	1 5; 2" = 0.16] 5;	37; 4" = 0.65;	5" = 1.02; 6"	= 1.47; 12"	= 5.88
TUBING IN	SIDE DIA. CAP	ACITY (Gal./Ft): 1/8" = 0.000	06; 3/16"	= 0.0014;	1/4" = 0.002		= 0.004; 3/8" =	0.006; 1/2" = 0).010; 5/8 °°	= 0.016
CAMPLED	BY (PRINT) / AI	EEU JATIONI:	i cai	MDI EDICLE	SAMP IGNATURE!	LING DA	AIA	- 			12.00
	aytor, Coli			WP CHROSO				SAMPLING	1241	SAMPLING	300
PUMP OR		.,		IPLE PUMP		100	1100m	INITIATED AT: **TUBING**	1	ENDED AT:	
	WELL (feet):	~ 30			nL per pathuja	× < 250	∠ <i>[00m</i> mL	MATERIAL CO	DE: PE		
FIELD DEC	ONTAMINATIO	W: (Y) N		LD-FILTERA ration Equips		V) FILT	ER SIZE: _	μπ	DUPLICATE:	Y P	2
	SAMPLE (CONTAINER		Turing Light		IPLE PRESEI	DIVATION				<u>/</u>
	SPECIF	ICATION MATERI		<u> </u>	· · · · · · · · · · · · · · · · · · ·				INTENDED ANALYSIS AND		AMPLING UIPMENT
SAMPLE I	D CONTAIL	NE AL	VOLUME	PRESER USI		TOTAL VO DDED IN FIEL		FINAL pH	METHOD		CODE
MW-8	RS	CODE		<u> </u>				<i>F</i> .	GrossAlpha,		
	2	PE	1 Ltr	HN		None			RA226RA228	APP .	ESP
66	1	PE	250 mL 250 mL	H2S HN		None None			Total Ammon Metals	ia APP	ESP-OC
46	1	PE	500 mL			None			Chloride,Fluori	de, 440	ESP_O
					Pathip	<u></u>			Nitrate, TDS	10:	Don's
REMARKS	3/2/	3 CG	40 mL	·	Nongo	None			Ø ₹ 8260/8011	of the	EOF
1996	Set d	edicas	A114.	· PE -	tubin	e-to	~38	· Stock	and 5to	arted	pump
				_	, ,	5,00				,	, ,
	at 11	98m	•								
1232	: WL a	13.86	at .1	apm	(GW)	is cl	aar.				
									•		
1234	; we a	3.86 a	けいら	3 P~	· dra	udon	14 15	Stable	· 00:5	4:54	at
1234; WE 23.86 at 1 3Pm draudown is stable. Do is his hat											
6.69 mg/c, but is typical for this well. Will use optional stabilization criteria for DO-All other parameters are											
				-	a Kor	100-	4116	stror p	gramet	es an	_
	Stable	e or iv	1 com	je.							
stable or in range.											
Notes: 1) Used a graduated 5 gallon bucket and timed to measure purge volumes											
2) Packed samples on ice immediately upon collection											
SAMPLING		AG = Amber APP = After Per									
EQUIPMEN		RFPP = Aner Pei RFPP = Revers		B ≠ Bai tic Pump;		: = Bladder Pu iw Method (Tu		SP = Electric Subrr y Drain); VT =	iersibie Pump; Vacuum Trap;	PP = Peristatt O = Other (S	
								TON CRITERIA FO ecific Conductance			
saturation (s	e Table FS 220	00-2), optionally	, <u>± .02 mg/L or</u>	± 10% (which	s, remperati chever is grea	e. <u>-</u> v.∠ ueg ater); Turbidit	y: all readin	ecilic Conductance lgs ≤ 20 NTU, optio	. <u> </u>	10% (whicheve	aumys <u>≤</u> 20% er is greater)



SITE	Sumter Co	umbu l an				SITE LOCATION:	Sumto	nilla El				
NAME: WELL NO:		unty Lan	unn_	CAMPIE	ID: MW-		Sume	IVIIIE, FL	DATE:	0/12		
WELL NO.	INITY-OA			SAINTLE		SING DA	TΔ		1111	7/13		
WELL 2"	PVC	TUBING 3	/8"	WELL SC	REEN INTE			DEPTH31,06	PURGE PUMP TO	/PF		
DIAMETER		DIAMETER		DEPTH:	feet to	feet	TO WAT	ER (feet):	OR BAILER: ES			
WELL VOL	UME PURGE:	1 WELL VOL	UME = (TOTA	L WELL DEP	TH - STA	TIC DEPTH T		X WELL CAP	ACITY			
only fill out	t if applicable)		- 1	50.17	6 4		4-	-M V	mallama Kaat	_	mellona	
EQUIPMEN	NT VOLUME PU	RGE: 1 EQU	= (PMENT VOL.		feet UME + (TUB	ING CAPACIT		et) X TUBING LENG	gallons/foot TH) + FLOW CELL	VOLUME , S	gallons	
	t if applicable)									~ ·		
		1 Equip		= .02 ga		.006 gallo				gallons =, 4	(4) gallons	
	MP OR TUBINO WELL (feet):	~40°		IP OR TUBING WELL (feet): /		PURGIN	IG ED <u>at:</u> () ⁴	PURGIN	AT: 1044	TOTAL VOLUM PURGED (galic	ons): 21-85	
		CUMUL		DEPTH	pH			DISCOLVED	7			
TIME	VOLUME PURGED	VOLUME PURGED	PURGE RATE	TO WATER	(standard	TEMP. (°C)	COND. (uS/cm)	OXYGEN	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	
	(gallons)	(gallons)	(gpm)	(feet)	units)			(mg/L)	(11100)	1		
10-10	20.85	2085	1.92	33.80	655	22.02	894	10,26	155	Claar	Sulfer	
10-19	· X	31-35	1.25	32.80	6.22	22.02	395	0.23	13.6	Clar	Some	
1001	,)	91.82	- 35	33.80	6.55	25.06	896	0.00	10.0	Clan	Jame	
				 				+		 		
		ļ · · · · · · · · · · · · · · · · · · ·		 		† · · · · · · · · · · · · · · · · · · ·			Nost	0000		
									,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
	<u> </u>	ļ		ļ						1		
WELL CAP	PACITY (Gallone	s Per Footi- n	.75" = 0 02·	1" = 0 04.	1.25" = 0.04	5· 2" = 0 14	5· 3" = /	 37:	5" = 1.02; 6"	= 1 47: 12"	= 5 88	
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: SAMPLED SYSTEM SAMPLED BY (PRINT) / AFFILIATION: SAMPLED BY												
Dale Ci	aytor, Coli	nas Grou		SHE	1/12	CASO	<u> </u>	.10 (3	ENDED AT:			
PLIMP OR TUBING SARPI POLIMP IVOV S 4 100 mm TUBING												
The second of th												
FIELD DECONTAMINATION: Y N FILTERED: Y (N) FILTER SIZE:WT DUPLICATE: Y												
SAMPLE CONTAINER SAMPLE PRESERVATION												
04457.5		MATE	₹/ \						INTENDED ANALYSIS AND		AMPLING QUIPMENT	
SAMPLE CODE	CONTAIL	NE AL	VOLUMI	PRESER		TOTAL VO DDED IN FIEL		FINAL pH	METHOD	-	CODE	
	RS	CODE							GrossAlpha,			
MW-9A	2	PE	1 Ltr	HN	<u>.</u>	None			RA226RA228		ESP	
66	1 1	PE	250 mL			None			Total Ammon	nia	ESP	
	1	PE	250 mL			None			Metals Chloride, Fluori	ide.	ESP	
	1	g PE	500 ml	. No	Voth:	None			Nitrate, TDS		ESP	
REMARKS	3/7	g CG	40 mL	HCĽ/I	Honge	None		A	PI 8260/8011		ESP	
	Inser	ted SS	ESP a	end d	ed:ca	ted 31	18 6	12 fub; 1	story reguline	0 640	card	
	1 - 40	bas 1	20 -	1 7	~ · · · ·	in, w	24 4	-grically	ruguire	a over	pursing	
m.a.	u, 4 u	July 1	con Pl	ite to	CLEAR	up the	- GW	· 6w :5 a	xtremel	y turb	id.	
U)I7.	0001	arew	CKUWN	+0 0	ump	at 4	U	toc, re	diced fl	10-4-0	AT 40	
00	and L	weed	pump	+0~	45	6+0C	. Gr	115 ext	remely f	urbid	,	
8433	. WL 32	-34 a	r. 050	pm	furbio	パナクル	at	95 NTUS	· Contin	d soin	urgen	
0940	. Turbi	dist	>9+60	1 NTV	5, rea	auced.	100	+0.15	9pm. 6	ntinuin	g purge	
	Used a graduate					a somel	the	6.atua	sgem.	`		
2)	Packed samples	s on ice immed	tiately upon co	lection		the state of the s	DD - C		(a	127)	(0	
MATERIAL	·	AG = Ambe		= Clear Glass		olyethylene;			Silicone; T = Tell		er (Specify)	
EQUIPMEN	NT CODES:	RFPP = Rever	eristaltic Pump se Flow Perist	attic Pump;	SM = Stra	= Bladder Pu w Method (Tu	ıbing Gravi	<u> </u>	= Vacuum Trap;	PP = Peristall 0 = Other (Specify)y	
CONSECUT	IVE READINGS	(SEE FS 221	2. SECTION 3)H: ± 0.2 units	; Temperati	ire: + 0.2 deg	rees C; Si	pecific Conductanc	OR RANGE VARIATION OR ± 5%; Dissolved for the contract of the	Oxygen: ali re	eadings < 20%	

SITE	Sumter Co	unty Landf			SITE LOCATION:	Sumtan	villa El					
NAME: WELL NO:		unity Lanui	411	SAMPLE ID: MV		Sumilery	/IIIE, FL	DATE: (1)	12/12			
WELL NO.	10104-10				RGING DA	ΤΔ		1111	010			
WELL 2"	PVC	TUBING 3/8	77	WELL SCREEN IN			EPTH JUL GO	PURGE PUMP TYP	PE _			
DIAMETER	? (inches):	DIAMETER (in	iches):	DEPTH: feet	3	TO WATER	R (feet):	OR BAILER: -ES	k PP			
	.UME PURGE: tif applicable)	1 WELL VOLU	ME = (TOTAL	WELL DEPTH - S	TATIC DEPTH TO	WATER)	X WELL CAPA	CITY				
, ,,,,	п -ррпошлоу		= (45.35' feet -		feet)) X	galions/foot	= gallons			
	NT VOLUME PU t if applicable)	IRGE: 1 EQUIP	MENT VOL. =	PUMP VOLUME + (T	UBING CAPACIT	Y X	TUBING LENGT	H) + FLOW CELL V	OLUMEX32.726			
(Orny Ini Out	п аружавие)	1 Equip V	ol =	gallons + (***	s/foot X	45 feet) -		ns = , 2 42 gallons			
INITIAL PU	MP OR TUBING		FINAL PUMP	OR TUBING	PURGIN	G _	PURGING	G /230 TO	OTAL VOLUME			
DEPIHIN	MP OR TUBING WELL (feet): #	CUMUL	DEPIHINW	ELL (feet): ~ C (y INITIATE	DAT: [3]	DISSOLVED	11: 135) P	URGED (gallons): [.30			
TIME	VOLUME PURGED	VOLUME PURGED	PURGE RATE	TO pH WATER (standa	ard (°C)	COND. P(#iS/cm)	OXYGEN	TURBIDITY (NTUs)	COLOR ODOR (describe) (describe)			
1-3-2-	(gallons)	(gallons)	(gpm)	(feet) r units)		Y .	(mg/L)		(2000)			
1323	190	.90	- 1	24-55 6.98	اطحما	560	1,33	4.04	Class None			
1333	1:3	130	-41	34.35	25.30	558	1.08	3:30	Clear None			
1707	10	1.50		20(43) B. 11	7 33 70		0.07	3.70				
							ļ	- 1 - 1				
	 							110 54	ream			
 	<u> </u>											
WELL CAR	PACITY (Gallon	s Per Foot): 0.7	5" = 0.02-	1" = 0.04; 1.25" =	0.06; 2" = 0.16	3" = 0.3	37; 4" = 0.65;	5" = 1.02; 6" =	1.47: 12" = 5.88			
		ACITY (Gal./Ft.)		06; 3/16" = 0.0014	; 1/4" = 0.0026	5/16" =		= 0.006; 1/2" = 0.				
CAMPLEO	D)//DD(A/T) / A	CEU INTION		SAI MBLBR(S) SIGNATUI	MPLING DA	TA			·			
	BY (PRINT) / A avtor. Coli	rriciation: nas Group,			RES.)	SAMPLING		SAMPLING /345			
				MI S PUMP	VOCS 4	100 ML	INITIATED AT: TUBING		ENDED AT:			
	DEPTH IN WELL (feet): YOU FLOW RATE (mL perminute): < 250 mL MATERIAL CODE: PE											
FIELD DEC	CONTAMINATIO	ON: (Y) N		LD-FILTERED: Y (ration Equipment Type		ER SIZE:	μπ	DUPLICATE:	Y (N)			
ļ		CONTAINER OF			SAMPLE PRESER	EVATION		INTENDED	SAMPLING			
SAMPLE	<i>(</i> () #	MATERI	T	PRESERVATIVE	TOTAL VO	,	FINAL	ANALYSIS AND/C	OR EQUIPMENT			
CODE	CONTAI	NE AL CODE	VOLUME	USED	ADDED IN FIEL		pН	METHOD	CODE			
MW-10	2	PE	1 Ltr	HN03	None			GrossAlpha,	ADD -EOP			
66	1	PE	250 mi.	H2S04	None			RA226RA228 Total Ammonia	a AAP ESP			
64	1	PE	250 mL	HN03	None			Metals	AGY ESP			
"	1	PE	500 mL	None	None			Chloride,Fluorid	le, APP ESP			
- "	3/2	3 CG	40 mL	HCL:North	None		- A	文 8260/8011	RFPP TOP			
REMARKS		od:colo	1 1100	PE tubin	12 ohn	NO.6-	Loc an	d starte	d pumpa+			
1314:			Ø^ 17	· · · ·	8 717	-10 01	,	, ,				
	.19				_							
1318:	We 21	4-55 a	+.19	pm, 60); s cla	Q ~ .						
							- ((1					
1300	WL 2	t-55 at	196	em, ora	is down	ィブラ	stack.	All pan	ametersare			
		-orin						-				
	5 101-	• , ,	7									
Notes: 1)	Used a graduate	ed 5 galion bucke	t and timed to	measure purge volun	nes							
2)	Packed sample	s on ice immedia	tely upon colle	oction								
MATERIA		AG = Amber (= Polyethylene;	PP = Polyp		Silicone; T = Teflo				
	G/PURGING NT CODES:	APP = After Per RFPP = Reverse		B = Bailer; tic Pump; SM =	BP = Bladder Pui Straw Method (Tu	• •	SP = Electric Subr Drain); VT :	nersible Pump; = Vacuum Trap;	PP = Peristattic Pump O = Other (Specify)y			
A/-4 4 7	The about of an	t constitute all the	information o	equired by Chapter 62								

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: \pm 0.2 units; Temperature: \pm 0.2 degrees C; Specific Conductance: \pm 5%; Dissolved Oxygen: all readings \leq 20% saturation (see Table FS 2200-2), optionally, \pm .02 mg/L or \pm 10% (whichever is greater); Turbidity: all readings \leq 20 NTU, optionally \pm 5 NTU or \pm 10% (whichever is greater)

SITE NAME:	Sumter Co	unty I and	fill		SITE LOCATION:	Sumten	ville Fl	· · · · · · · · · · · · · · · · · · ·				
WELL NO.		unity Land	1111	SAMPLE ID: M		Juniter	ville, i L	DATE:	10/12			
TICLE IVO	1000	· <u></u>			RGING DA	TA		14	10/13			
WELL 2'	' PVC	TUBING 3/	817	WELL SCREEN IN		STATIC D	EPTH26.19	PURGE PUMP 1		***		
DIAMETEI	२ (inches):	DIAMETER (I	inches):	DEPTH: feet		TO WATE	R (feet):	OR BAILER:	SPCPP			
1	LUME PURGE: t if applicable)	1 WELL VOLU	ME = (TOTAL	WELL DEPTH - S	STATIC DEPTH TO	WATER)	X WELL CAPA	ACITY				
	•		= (40.15' feet -		feel		gailons/foo		gallons		
	NT VOLUME PU It if applicable)	RGE: 1 EQUIP	MENT VOL. =	PUMP VOLUME + (1	_	Υ <i>X</i>	TUBING LENGT	TH) + FLOW CELL	VOLUME V	3: ,882		
(0)	и п арриоавису	1 Equip V	/ol =	: _02) gallons + (.0036 2006 gallor	ns∕foot X	65 feet)	+ .125 g		g 🗸 gailons		
1	JMP OR TUBING	w35'	FINAL PUMP	OR TUBING	PURGIN		PURGIN	- 1	TOTAL VOLUM	WE .		
DEPTHIN	WELL (feet):	CUMUL.		ELL (feet): ~ 3) INITIATE	DAI:	DISSOLVED		PURGED (gall	ons):		
TIME	VOLUME PURGED	VOLUME PURGED	PURGE RATE	WATER (standa		COND.	OXYGEN	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)		
	(gallons)	(gallons)	(gpm)	(feet) I units		<u>u</u>	(mg/L)	(11.00)	(Godonico)	(400020)		
1021	190	1.26		3694 69c		326	1.27	4.70	Clear	Vone		
1000	1.09	1.40	.07	36.23 62	35.89	327	1.40	3/5	(Reg	Mone		
(03.)		1.34		x 6:00. (6:00	99-07	<i>30</i> 4	1790	7.17	- Car	Toore		
	ļ						ļ ·			ļ		
			-							-		
									+	1		
WELL CA	PACITY (Gallons	Per Footh: 0.7	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· 12"	= 5.88		
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												
CAMPLED	BY (PRINT) / AI	-FULLTION:	1 64	SAI MPLEBISI SIGNATU	MPLING DA	\TA			т			
1	laytor, Coli		, Inc.		116		SAMPLING INITIATED AT	1096	SAMPLING ENDED AT:	1045		
	PUMP OR TUBING DEPTH IN WELL (feet): 135 FLOW RATE (fine perminute): < 250 mL MATERIAL CODE: PE											
FIELD DE	CONTAMINATIO		Fill De G	LD-FILTERED. Y ration Equipment Typ		ER SIZE: _	µ m	DUPLICATE:	Y K	D D		
		CONTAINER 6	~~(7		SAMPLE PRESER	RVATION		INTENDED	S	SAMPLING		
SAMPLE	ID CONTAIL	MATERI	VOLUME	PRESERVATIVE	TOTAL VO	L	FINAL	ANALYSIS AND METHOD		QUIPMENT CODE		
CODE	RS	VE AL CODE	VOLUME	USED	ADDED IN FIEL	D (mL)	рH	METHOD				
MW-1	1 2	PE	1 Ltr	HN03	None			GrossAlpha, RA226.RA228	APP	ESP A		
\$6	1	PE	250 mL	H2S04	None			Total Ammo		ESP-O		
	11	PE_	250 mL	HN03	None			Metals Chloride.Fluo	rido AGG	ESP ac		
66	1	PE	500 mL	None	None			Nitrate, TDS	ride, App	ESPO		
REMARKS	00/3	3 CG	41 mL	HCL/Nong	None		_	8260/8011 Д	DZ) REP	p ESBAC		
		1 1	I due	05 L.d.		r. Li		ر. المصاحب	. , ,	1 00		
1000.	201 100	a careo	, ,,,	PE taking		,, 9	cay.	ا معمل مساود		* + 10)		
	gpm.	e				,	Λα	lasalasa	1 110	- mole		
1010:	we al	o. 22 ad	1-07	3pm 6	is is a	eor.	00 35	11:999	7 4.06	<i>a</i> 191-1		
	but:	sslow	15 dra	1. 5×30	will ous	VPL	mge to	get it i	no	nga.		
			1				. 11	0.0		Asi		
1019;	nr 36	od at	019	productions of	aw dow	175 5	40 le	do is in	rang	e. Hu		
	Offer	param	eters	are 9-ton	66011	nra	nge.					
	•			-			U					
				measure purge volui ection	nes							
2)	Used a graduate Packed samples L CODES:		itely upon colle	ection	nes = Polyethylene;	PP = Poly	propylene; S =	Silicone; T = Te	fion; O = Oth	ner (Specify)		
2) MATERIA SAMPLIN	Packed samples L CODES: G/PURGING	on ice immedia	ntely upon colle Glass; CG = ristaltic Pump;	ction Clear Glass; PE B = Bailer;		np; E	SP = Electric Sub		flon; O = Oth PP = Peristal O = Other (ttic 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)

<i>NAME:</i> Su	mter Cou	inty Land	lfill		SITE LOCATION: S	umterville	. FL			
	NA			SAMPLE ID: EC			,,,_	DATE:	19/13	
					RGING DAT	Ά		1	11112	
WELL		TUBING		WELL SCREEN IN		STATIC DEPTH		PURGE PUMP T	YPE	
DIAMETER (In		DIAMETER		DEPTH: feet	to feet	TO WATER (fee		OR BAILER: ES	SP	
		WELL VOLU	JME = (TOTAL	WELL DEPTH - S	TATIC DEPTH TO	WATER) X I	NELL CAPAC	CITY		
only fill out if a	ipplicable)		= (feet –		feet) X		gallons/foot	t =	gallons
EQUIPMENT \ (only fill out if a		RGE: 1 EQUI	PMENT VOL. =	PUMP VOLUME + (T		X TUB		H) + FLOW CELL		
INITIAL PUMP	OD TUDING		= g FINAL PUMP		llons/foot X PURGING	feet)	+ PURGING	gallons =	TOTAL VOLUM	gallons
DEPTH IN WE			DEPTH IN W		INITIATED		EMDED A		PURGED (gallo	_
		CUMUL.	T	DEPTH NH		D	ISSOLVED			
	VOLUME PURGED	VOLUME PURGED	PURGE RATE	WATER (standa units)			OXYGEN (mg/L)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
	(gallons)	(gallons)	(gpm)	(feet) Lines)			(11 4)C)	<u> </u>		
									ļ <u></u>	
	, ,		+						 	
<u>/</u> /			 					+	 	
11	#		 		 			1	 	<u> </u>
			1						 	
			1						· · · · · · · · · · · · · · · · · · ·	
										
				1" = 0.04; 1.25" = 0 06; 3/16" = 0.0014;		3" = 0.37; 5/16" = 0.00				= 5.88 = 0.016
TOBING MASIL	E DIA. CAPA	CIT (Gaile)	.). 1/6 - 0.00		1/4" = 0.0026; MPLING DA		4, 3/0 -	0.000, 112 -	0.010, 376	- 0.016
SAMPLED BY	(PRINT) / AF	FII IATION:	SA	MPLER(3), SOID, TUE		2		 		
Dale Clay					milles	7 / SA	MPLING	1000	SAMPLING	ann
PUMP OR TU		uo oroup		NECE PUMP	My Co	TI	MPLING TIATED AT: BING	0830	ENDED AT:	9900
DEPTH IN WE				OW RATE (ml. per mir	(250 m		TERIAL COL	DE: PE		
				LD-FILTERED.			ım			
FIELD DECON	HAMINATION	Y N	Filt	ration Equipment Type	»:			DUPLICATE:	Y N	
	SAMPLE C			S	AMPLE PRESERV	/ATION		MITTAINEN		
	SPECIFI									ARADI INIC
4.1.57.5.15	#	CATION MATER	1					INTENDED ANALYSIS AND		AMPLING OUIPMENT
SAMPLE ID	CONTAIN	MATER E AL	VOLUME	PRESERVATIVE	TOTAL VOL		VAL			
SAMPLE ID CODE	_	MATER		PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD		Н	ANALYSIS AND METHOD		UIPMENT
	CONTAIN	MATER E AL					Н	ANALYSIS AND METHOD GrossAlpha,		UIPMENT
CODE EQB	CONTAIN RS	E AL CODE	VOLUME	USED	ADDED IN FIELD	(mL) p	Н	ANALYSIS AND METHOD	VOR EG	OUIPMENT CODE
CODE EQB	CONTAIN RS 2	E AL CODE	VOLUME 1 Ltr	USED HN03	ADDED IN FIELD None	(mL) p		ANALYSIS AND METHOD GrossAlpha, RA226RA228 Total Ammoi Metals	VOR EG	CODE ESP
CODE EQB	CONTAIN RS 2 1	E AL CODE PE PE	1 Ltr 250 mL	USED HN03 H2S04	ADDED IN FIELD None None	(mL) p		ANALYSIS AND METHOD GrossAlpha, RA226RA228 Total Ammo Metals Chloride,Fluor	VOR EG	ESP
CODE EQB	CONTAIN RS 2 1 1	MATER AL CODE PE PE PE	1 Ltr 250 mL 250 mL 500 mL	USED HN03 H2S04 HN03	None None None None None None	(mL) p		ANALYSIS AND METHOD GrossAlpha, RA226RA228 Total Ammo Metals Chloride,Fluor Nitrate, TDS	nia ride,	ESP ESP
EQB " " " REMARKS:	2 1 1 1 1 3/2	PE PE CG	VOLUME 1 Ltr 250 mL 250 mL 500 mL 40 mL	HN03 H2S04 HN03 None HCL/None	None None None None None None None	(mL) F		ANALYSIS AND METHOD GrossAlpha, RA226RA228 Total Ammon Metals Chloride, Fluor Nitrate, TDS 8260/8011	nia ride,	ESP ESP ESP ESP
EQB " " " REMARKS:	2 1 1 1 1 3/2	PE PE CG	VOLUME 1 Ltr 250 mL 250 mL 500 mL 40 mL	HN03 H2S04 HN03 None HCL/None	None None None None None None None	(mL) F		ANALYSIS AND METHOD GrossAlpha, RA226RA228 Total Ammon Metals Chloride, Fluor Nitrate, TDS 8260/8011	nia ride,	ESP ESP ESP ESP
EQB " " " REMARKS:	2 1 1 1 1 3/2	PE PE CG	VOLUME 1 Ltr 250 mL 250 mL 500 mL 40 mL	HN03 H2S04 HN03 None HCL/None	None None None None None None None	(mL) F		ANALYSIS AND METHOD GrossAlpha, RA226RA228 Total Ammon Metals Chloride, Fluor Nitrate, TDS 8260/8011	nia ride,	ESP ESP ESP ESP
EQB " " " REMARKS:	2 1 1 1 1 3/2	PE PE CG	VOLUME 1 Ltr 250 mL 250 mL 500 mL 40 mL	HN03 H2S04 HN03 None HCL/None	None None None None None None None	(mL) F		ANALYSIS AND METHOD GrossAlpha, RA226RA228 Total Ammon Metals Chloride, Fluor Nitrate, TDS 8260/8011	nia ride,	ESP ESP ESP ESP
EQB " " REMARKS: Field Inser Pour Pumi	CONTAIN RS 2 1 1 1 312 decont	PE PE CG	VOLUME 1 Ltr 250 mL 250 mL 500 mL 40 mL	HN03 H2S04 HN03 None	None None None None None None None	(mL) F		ANALYSIS AND METHOD GrossAlpha, RA226RA228 Total Ammon Metals Chloride, Fluor Nitrate, TDS 8260/8011	nia ride,	ESP ESP ESP ESP
EQB " " " REMARKS:	CONTAIN RS 2 1 1 1 312 decont	PE PE CG	VOLUME 1 Ltr 250 mL 250 mL 500 mL 40 mL	HN03 H2S04 HN03 None HCL/None	None None None None None None None	(mL) F		ANALYSIS AND METHOD GrossAlpha, RA226RA228 Total Ammon Metals Chloride, Fluor Nitrate, TDS 8260/8011	nia ride,	ESP ESP ESP ESP
EQB " " REMARKS: Field Inser Pour Pumi	CONTAIN RS 2 1 1 1 312 decont	PE PE CG	VOLUME 1 Ltr 250 mL 250 mL 500 mL 40 mL	HN03 H2S04 HN03 None HCL/None	None None None None None None None	(mL) F		ANALYSIS AND METHOD GrossAlpha, RA226RA228 Total Ammon Metals Chloride, Fluor Nitrate, TDS 8260/8011	nia ride,	ESP ESP ESP ESP
EQB " " REMARKS: Field Inser Pour Pumi	CONTAIN RS 2 1 1 1 312 decont	PE PE CG	VOLUME 1 Ltr 250 mL 250 mL 500 mL 40 mL	HN03 H2S04 HN03 None HCL/None	None None None None None None None	(mL) F		ANALYSIS AND METHOD GrossAlpha, RA226RA228 Total Ammon Metals Chloride, Fluor Nitrate, TDS 8260/8011	nia ride,	ESP ESP ESP ESP
EQB " " REMARKS: Field Inser Pour Pumi	CONTAIN RS 2 1 1 1 312 decont	PE PE CG	VOLUME 1 Ltr 250 mL 250 mL 500 mL 40 mL	HN03 H2S04 HN03 None HCL/None	None None None None None None None	(mL) F		ANALYSIS AND METHOD GrossAlpha, RA226RA228 Total Ammon Metals Chloride, Fluor Nitrate, TDS 8260/8011	nia ride,	ESP ESP ESP ESP
REMARKS: Field Inser Pour Pump	CONTAIN RS 2 1 1 1 312 decon ted E5 ad: 1 Pana	PE PE PE CG PS OU PE	1 Ltr 250 mL 250 mL 500 mL 40 mL	HN03 H2S04 HN03 None HCL/None HCL/None A WL P OF OSE 1 1+ F DT WA	None None None None None None None Ser JA	(mL) F		ANALYSIS AND METHOD GrossAlpha, RA226RA228 Total Ammon Metals Chloride, Fluor Nitrate, TDS 8260/8011	nia ride,	ESP ESP ESP ESP
EQB " " REMARKS: Field Inser Pour Fump Samp	CONTAIN RS 2 1 1 1 312 decon ted ES ad: 1	PE PE PE CG SS	1 Ltr 250 mL 250 mL 500 mL 40 mL	HN03 H2S04 HN03 None HCL/None HCL/None TO Se : 1+ TO Se Co	None None None None None None None Ser JA	(mL) F		ANALYSIS AND METHOD GrossAlpha, RA226RA228 Total Ammon Metals Chloride, Fluor Nitrate, TDS 8260/8011	nia ride,	ESP ESP ESP ESP
EQB " " REMARKS: Field Inser Pour Fump Samp	CONTAIN RS 2 1 1 1 312 ALLO M Ted ES A : 1 P and 1(es -	PE PE PE CG SS	VOLUME 1 Ltr 250 mL 250 mL 500 mL 40 mL 40 mL LSP and LSP A	HN03 H2S04 HN03 None HCL/None HCL/None HCL/None TOSE : 1+ TOSE Co,	None None None None None None None Serial	(mL) F	SOP-	ANALYSIS AND METHOD GrossAlpha, RA226RA228 Total Ammon Metals Chloride, Fluor Nitrate, TDS 8260/8011	nia nide, FE George Har Har	ESP ESP ESP ESP
REMARKS: Field Inser Pour Fump Samp Notes: 1) Use 2) Pac	CONTAIN. RS 2 1 1 1 3/2 ALLO M Ted ES a A: 1 P and 2 (25- d a graduated sked samples DDES: URGING A	PE PE PE PE CG SS	VOLUME 1 Ltr 250 mL 250 mL 500 mL 40 mL 40 mL LSP and LSP A	HN03 H2S04 HN03 None HCL/None HCL/None HCL/None TOSE : 11 TOSE CO measure purge volumetion Clear Glass; PE =	None None None None None None None Ser IA Official offici	(mL) E I I I I I I I I I I I I	ene; S = S	ANALYSIS AND METHOD GrossAlpha, RA226RA228 Total Ammon Metals Chloride, Fluor Nitrate, TDS 8260/8011	nia nide, FE George Har Har	ESP

votes: 1. I ne 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)

8601 Soutimoint Plwy - Jacksonvillo, Ft. 32216 - 904.363.9350 - Fax 904.363.9354 - 662574 9610 Princess Patm Ave. - Tampa, Ft. 33610 - 813.630,9616 - Fax 813.630,4327 - 684569 6815 5W Archer Road - Gainewille, Ft. 32606 - 932.377.2349 - Fax 352.396.639 - 682001 6226 S. North Lake Blwt, Sto. 1016 - Alternating Sprince, Ft. 32701 - 407,937,1594 - Fax 407 93

A1308521

		326 S. NOTIN LARGE DIV							71.307.1081	ESOUTO									
CLUENT NAME:	The Colinas Group, Inc.	Sumter	r Co. L	Landfill -	- GW Sa	amplin	g	BOTTLE SIZE & TYPE				- LP	ם	3		1	1		
ADDRESS:	377 Maitland Ave Suite 2012	P.O. NUMBER/PROJECT	T MANAGER	P-4	83			88	11.	1. P	11.	92	125 mL	40mLViel	40 mL				K
	Altamonte Springs, FL 32701	PROJECT LOCATION:	544	- Lary	rillat	Z											\Box		18
PHONE:	407-622-8176		REMARK	B/SPECIAL INC	STRUCTIONS:			물		228	Fe, Pb, a, c,Cu Ni		တ		and DBCP	1	- 1		3
FAX:	407-622-8196			•				8	_	. 73	Sr, Fe, F Na, Co,Cu		TDS	85					9
CONTACT:	Dale Claytor							쮼	ă	Ra	P. S. S.			>	Ĕ				\ <u>\}</u>
SAMPLED BY:	ale Claudor							Sis	Alpha	+	2 8 8 C	ig B	9	g	EDB		1		Į į
	TURN AROUND TIME:							💆 !	SS	226	A P S	٤	CI, NO3,	₹					₹
DETANDARD			•					ANALYSIS REQUIRED	Gross	Ra	S T.B.	Ammonia	F, C	8260 App I Vocs	8011				LABORATORY I.D. NUMBER
SAMPLE ID	SAMPLE DESCRIPTION	1	Grab Comp	SAME DATE	PLING TIME	MATRIX	NO. COUNT	PREBER	N	N	N	S	ı	H	la Thi	1]			
	MW-10		G	114813	1345	w	11		х	х	х	х	х	х	х			i	01
	MW-11		G		1045	14/	11		х	х	х	х	х	x	x				02
	MW-2		G		1908	w	11		х	х	х	x	х	x	x				03
	MW-4		6		1500	w	11		х	x	х	х	х	x	x				04
	MW-4A		6	11-19-13	1158	w	11		х	x	х	x	х	x	x				05
	MW-4B		G		1245	w	11		х	x	х	х	x	X	x				06
	MW-6A		G		1425	w	11		x	x	х	х	Х	X	x				07
	MW-8		G	11-18-13	1300	w	11		х	x	х	Х	X	x	X			<u> </u>	08
	MW-9A		G	11.19.13	1058	w	11		х	x	х	X	x	x	x				09
	Equp Blank		G		0900	w	11		x	x	X	х	х	x	X		\sqcup		10
	Trip Blank-1		မ		<u> </u>	W	3			<u> </u>		- Madboo	2 - 418	X	. 41015				11
	rix Code: WW = wastewater SW = surface water GW Yes No Temp taken from a										etion Code: = io) \$ = (nz					dosulfate)	
Received on ice Tom revised 2/8/0		samper L	Temp from	m lemp blenk			quired, pt1 c sed for mess			•	re when receive circle IR temp gun u		f G		LT-2	6 celcius T: 10A 🖊		i	
	Relinquished by: Deta Time		Received	i by:		Dele	Time]			RINKING WA					-4		-	,
160		01/4					1551	1 !	A		Ahen PVVS Information			4) PM	v\$ 10:			_	

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

Field Instrument Calibration Records

INSTRUM	AFNT (N	AKF/M(nstrument C YSI 556/Hanr			¥		
PARAME	•	i/ii\L/ivi\	, DEC.	101000/114111		JINOMENT,	·		
		IRE	CONDI	UCTIVITY	□ saiin	VITY X	r LpH [] ORP	
Jul	RBIDITY		☐ RESID	UCTIVITY UAL CL	DO		OTHER_	_	
				/ ters pH 4.01 – 7			TU's]		
Stane	dard A _	Oakt	on pHS	tandard 4.01	Units	Exp: 11	2014		
				tandard 7.00 (. , , ,			
Stand	lard C _	Oakt	on Cond	uctivity Stand	ard 150	0 uS/cm Ex	p: 4/2	014	
				TU Standard		• /	_ ' '	<u>, </u>	
Stand	ard E	Hann	na 15 NT	U Standard	Ехр:	4/201	<u> </u>		
DATE (yy/mm/dd)	TIME (hr:min)	STD (A, B, C)	STD VALUE	INSTRUMENT RESPONSE	% DEV	CALIBRATED (YES, NO)	TYPE (INIT, CONT)	SAMPLER INITIALS	
11 8 13	1920) A	4.01	4-01		Yes	$\mathcal{I}C$	me	рН
1	ĺ	В	7.00	7.00			1		ρН
		С	1500	1500					Cond
									DO
				23.79					Temp
		D	0.1	0.1					Turb
		Ε	15	15.0					Turb
	l						• • • • • • • • • • • • • • • • • • •		
11/18/13	0940	Α	4.01	4.01		Yes	ILV	to	рН
1		В	7.00	7.00					рН
		С	1500	1502					Cond
				8.41					DO
				24.00					Temp
		D	0.1	0.08					Turb
	1	Ε	15	14.9					Turb
						l l			
11/18/13	1220	Α	4.01	4.06		Yes	CC	100	рН
		В	7.00	7.06			1		рН
		С	1500	1497	<u> </u>				Cond
				7.60					DO
				27.56					Temp
		D	0.1	0.08					Turb
1	\	Ε	15	15.1		1	1		Turb
								,	
					ļ				
					ļ				

Field Instrument Calibration Records

INSTRUMENT (MAR	(E/MODEL#) YSI 556/Ha	nna_INSTRUMI	ENT #	
PARAMETERS:				
TEMPERATURE	CONDUCTIVITY	☐ SALINITY	ÞρΗ	□ ORP
TURBIDITY	RESIDUAL CL	X20	□ OTHER	
STÁNDARDS: [Brace	ket calibrated meters pH 4.01 –	7 and Turbidity 0.1 -	- 15 NTU's]	
Standard A	Oakton pH Standard 4.0	1 Units Exp:	11/2014	
Standard B	Oakton pH Standard 7.00	Units Exp:	5/2015	•
Standard C	Oakton Conductivity Star	ndard 1500 uS/cm	1 Exp: 4/24	014
Standard D	Hanna 0.1 NTU Standard		ois "	
		111	-	, in the second of the second

Stand	ard E _	Hanr	na 15 N7	U Standard I	Ехр:	4/2015			
DATE (yy/mm/dd)	TIME (hr.min)	STD (A, B, C)	STD VALUE	INSTRUMENT RESPONSE	% DEV	CALIBRATED (YES, NO)	TYPE (INIT, GONT)	SAMPLER INITIALS	
11/19/13	0925	Α	4.01	4.01		Yes	IC	HE	ρН
1		В	7.00	7.00			1		рН
		С	1500	1500					Cond
				8-92					DO
				20.88					Temp
		D	0.1	0-1					Turb
		Ε	15	15-0					Turb
در امران	M 15	Α	4.01	4.02		Yes	TOX	Be	рН
11/19/13	(na)	В	7.00	I		725	IUV	W.	pН
		С	1500	7.00					Cond
				8.84					DO
				21.30					Temp
		D	0.1	0.07	!				Turb
		E	15	15-0					Turb
111913	1430	Α	4.01	4.08		Yes	CC	100	ρН
[Ī	В	7.00	7.05		1	(рН
		С	1500	1501					Cond
				8-38					DO
			_	24.12					Temp
		D	0.1	0-08					Turb
	(Ε	15	15.2					Turb
· · · · · · · · · · · · · · · · · · ·							1		
				-					
<u> </u>									