

John E. Manning District One

Cecil L Pendergrass District Two

Larry Kiker District Three

Brian Hamman District Four

Frank Mann District Five

Roger Desjarlais County Manager

Richard Wm. Wesch County Attorney

Re:

Donna Marie Collins Hearing Examiner March 28, 2014

Mr. Albert D. McLaurin, PE Director of District Management Florida Department of Environmental Protection P.O. Box 2549 Fort Myers, FL 33902-2549

> Lee County Resource Recovery Facility, PA90-30H Construction & Demolition Debris Recycling Facility WACS ID No. 93715 First Semi-Annual 2014 Water Quality Monitoring Report

Dear Mr. McLaurin:

Enclosed please find the First Semi-Annual 2014 Water Quality Monitoring (WQM) Report for the Lee County Resource Recovery Facility (RRF) and the Construction & Demolition Debris Recycling Facility (CDDRF). Flowers Chemical Laboratories, Inc. (FCL) sampled the RRF's six (6) shallow monitoring wells, or WTE-1S, WTE-2S, WTE-3SR, WTE-4S, WTE-5S and WTE-6S, which include the CDDRF's three (3) monitoring wells or WTE-2S, WTE-3SR and WTE-4S, on February 5, 2014. Sampling was performed in accordance with the Facility's Ground Water Monitoring Plan (GWMP) dated August 2010 and approved by the Department on October 19, 2010.

The laboratory analytical results from this WQM event were compared to the Department's water quality standards or maximum contaminant levels (MCL) established in Chapter 62-550, F.A.C., and are summarized below.

Ground Water Monitoring Data Discussion

Ground water from all six (6) shallow monitoring wells exceeded the secondary drinking water standard for Iron, which is 0.3 milligrams per liter (mg/L) as established by Rule 62-550, F.A.C. The Total Dissolved Solids (TDS) concentration of ground water from wells WTE-2S and WTE-5S exceeded 500 mg/L, which is the secondary drinking water standard for Total Dissolved Solids (TDS) established by Rule 62-550, F.A.C. The concentrations of Iron and TDS in the wells that exceeded the MCL as noted above are provided in Table 1.

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Parameter (units)	WTE-1S	WTE-2S	WTE- 3SR	WTE-4S	WTE-5S	WTE-6S
Iron (mg/L)	2.84	2.06	2.96	1.74	1.99	0.952
TDS (mg/L)	BS	606	BS	BS	566	BS

Table 1 – Summary of Results for Monitoring Wells which Exceeded the Water Quality Standards Established in Chapter 62-550, F.A.C.

BS-Below Standard

Electronic Data Files

In accordance with the Department's electronic reporting requirements, this WQM Report includes the field and laboratory ADaPT files which are provided as separate electronic files prepared in the Department specified format.

Ground Water Elevations

The ground water elevations at the six (6) shallow (water table aquifer) and six (6) deep (sandstone aquifer) monitoring wells are provided in Table 2 below. The elevations were determined in accordance with the Department's Standard Operating Procedures for Field Activities, DEP-SOP-001/01, and specifically per FS2200, Ground Water Sampling. The data used to determine the ground water elevations, i.e., top of casing elevations and depth to ground water measurements, is provided in the Attachments to this WQM Report.

WELL ID	Elevation (ft., NGVD)	WELL ID	Elevation (ft., NGVD)
WTE-1S	18.52	WTE-1D	10.99
WTE-2S	17.85	WTE-2D	16.51
WTE-3S	16.81	WTE-3D	15.72
WTE-4S	15.25	WTE-4D	14.26
WTE-5S	17.6	WTE-5D	16.21
WTE-6S	14.68	WTE-6D	13.69

Table 2 - Ground Water Elevations (ft., NGVD) Measured February 5, 2014

Note: WTE-2S, WTE-3SR and WTE-4S comprise the monitoring well network for the CDDRF

Field Documentation and Report Certification

The attachments to this WQM Report include DEP Form #62-701.900(31), F.A.C., Water Quality Monitoring Certification, DEP Form FD 9000-24, Ground Water Sampling Log for each well sampled, field data sheets and sample chain of custody.

Mr. Albert D. McLaurin, PE March 28, 2014 Page 3 of 3

Recommendations/Conclusions

The monitoring results reported herein for the First Semi-Annual 2014 Water Quality Monitoring Report are consistent with prior monitoring results and background data for the RRF and the CDDRF and are typical for ground water from this geographical region. Based on these monitoring results, no additional ground water monitoring is recommended. The RRF and CDDRF will continue to implement the approved ground water monitoring plan and will report the results to the Department as required.

Please call me at (239) 533-8930 if you have any questions pertaining to this Water Quality Monitoring Report.

NHITTAURA A. GRAL CENDE Sincere No. 50138 * Laura A. Gray, P.E. STATE OF **Engineering Manager** Solid Waste Division Attachments Cc: Bill Krumbholz, DEP Jay Standiford, DEP

Jay Standiford, DEP Lindsey J. Sampson, SWD Keith Howard, SWD Mike Duff, Covanta Tyler Huffman, Covanta File II E107

LIST OF ATTACHMENTS

Attachment A - Ground Water Monitoring Report Certification, DEP Form # 62-701.900(31)

Attachment B - Ground Water Contour Maps (Shallow and Sandstone Wells) and Supporting Data

Attachment C - Ground Water Monitoring Well Inspection Forms (Shallow and Sandstone Wells)

Attachment D – Sampling Documentation (Shallow Wells)

Ground Water Sampling Logs, FD 9000-24 Field Data Sheets Chain of Custody

Attachment A-Ground Water Monitoring Report Certification, DEP Form # 62-701.900(31)



Florida Department of Environmental Protection

Bob Martinez Center 2600 Blair Stone Road Tallahassee, Florida 32399-2400

DEP Form #. 62-701.900(31), F.A.C
Form Title Water Quality Monitoring Certification
Effective Date: January 6, 2010
Incorporated in Rule 62-701.510(9), F.A.C.

WATER QUALITY MONITORING CERTIFICATION

PART I GENERAL INFORMATION

Address <u>10500 Buckingham Road</u> City Fort Myers	Zip 33905	County Lee
Telephone Number (239) 533-8000	Zip <u>55505</u>	
(2) WACS Facility ID <u>93715</u>		
(3) DEP Permit NumberPA90-30H		
(4) Authorized Representative's Name Lindsey J. Sampson	Title	Director
Address 10500 Buckingham Road		
City Fort Myers	Zip <u>33907</u>	County Lee
Telephone Number (239) 533-8000		
Email address (if available) lsampson@leegov.com		

CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submission of false information including the possibility of fine and imprisonment.

(Date) (Owner or Authorized Representative's Signature)

PART II QUALITY ASSURANCE REQUIREMENTS

Sampling Organization Flowers Chemical Laboratories, Inc.

Analytical Lab NELAC / HRS Certification # E83018

Lab Name Flowers Chemical Laboratories, Inc

Address P.O. Box 150597, Altamonte Springs, FL 32715-0597

Phone Number (407) 339-5984

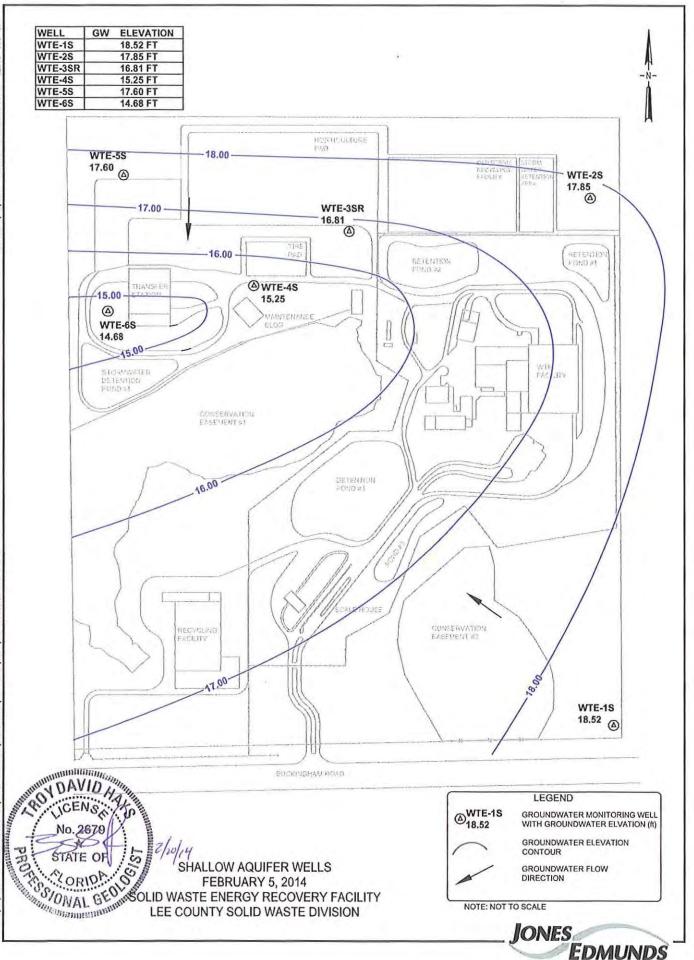
Email address (if available)

Northwest District 160 Government Center Pensacola, FL 32501-5794 850-595-8360 Northeast District 7825 Baymeadows Way, Ste. 200 B Jacksonville, FL 32256-7590 904-807-3300

Central District 3319 Maguire Blvd., Ste. 232 Orlando, FL 32803-3767 407-894-7555 Southwest District 13051 N. Telecom Pky. Temple Terrace, FL 813-632-7600 South District 2295 Victoria Ave., Ste. 364 Fort Myers, FL 33902-2549 239-332-6975

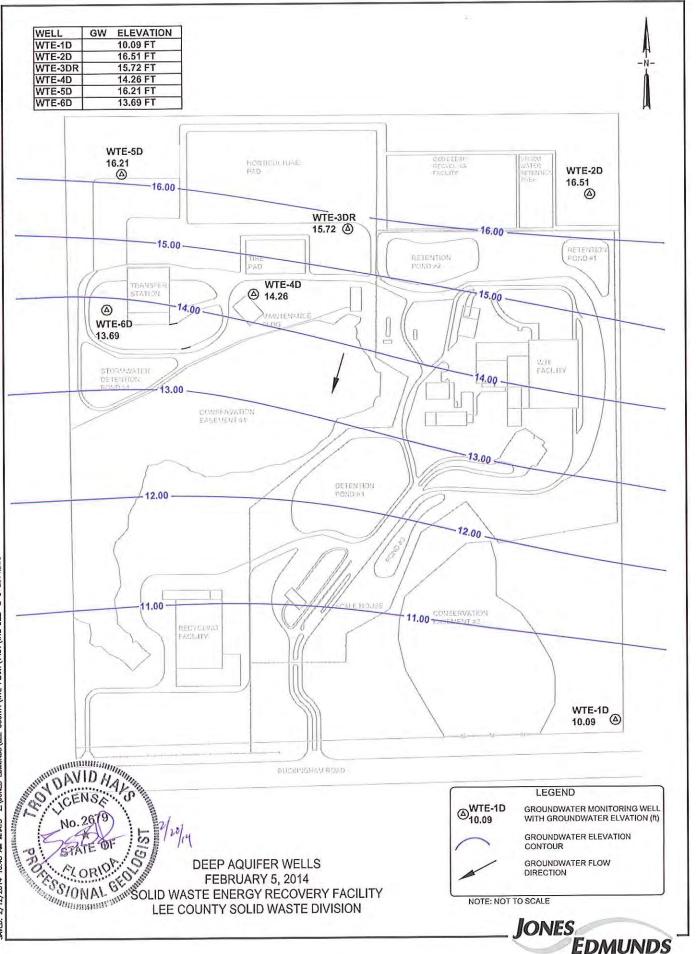
Southeast District 400 North Congress Ave. West Palm Beach, FL 33401 561-681-6600

Attachment B –Ground Water Contour Maps (Shallow and Sandstone Wells) and Supporting Data



PLOTTED: 2/12/2014 11:09 AM MICHELLE R. HAYS 12345-005-01

SAVED: 2/12/2014 10:44 AM MHAYS Z: VONES EDMUNDS/LEE COUNTY/WE PLANT/14S1/WE SHALLOWZ-5-2014.DWG



PLOTTED: 2/12/2014 11:10 AM MICHELLE R. HAYS 12345-005-01

SAVED: 2/12/2014 10:43 AM MHAYS Z:\JONES EDMUNDS\LEE COUNTY WIE PLANT\14S1\WIE DEP 2-5-2014.DWG

Lee County Resource Recovery Facility Ground Water Elevations for February 5, 2014

	GW Elevation		GW Elevation (ft,
Well ID	(ft, NGVD)	Well ID	NGVD)
WTE-1S	18.52	WTE-1D	10.09
WTE-2S	17.85	WTE-2D	16.51
WTE-3SR	16.81	WTE-3DR	15.72
WTE-4S	15.25	WTE-4D	14.26
WTE-5S	17.6	17.6 WTE-5D	16.21
WTE-6S	14.68	WTE-6D	13.69

All deep wells are 4 inch diameter and all shallow well are 2 inches diameter

Well No.	Elev. TOC, NGVD	Depth to Water, ft.	Water Elevadori, FL., NGVD	Total Depth (ft)
WTE-1S	21.91	3.39	18.52	14.6
WTE-1D	22.96	12.87	10.09	93.55
WTE-2S	24.18	6.33	17.85	12
WTE-2D	23.52	7.01	16.51	93
WTE-3SR	23.98	7.17	16.81	16.95
WTE-3DR	23.91	8.19	15.72	92
WTE-4S	22.48	7.23	15.25	13.4
WTE-4D	23.81	9.55	14.26	96
WTE-5S	23.81	6.21	17.6	17.41
WTE-5D	24.5	8.29	16.21	94
WTE-6S	23.66	8.98	14.68	19.98
WTE-6D	22.91	9.22	13.69	96

Note: WTE-3SR and WTE-3DR were installed on 9/15/10 and 10/1/10, respectively, to replace WTE-3S and WTE-3D which were relocated due to development of area for the C&D recycling facility. The Department approved the relocation of WTE-3S (to WTE-3SR) and WTE-3D (to WTE-3DR) on June 18, 2010 in letter which approved the C&D facility & its' GWM network. The C&D Facility's GWM network consists of WTE-2S (upgradient), WTE-3SR and WTE-4S (both downgradient)

Attachment C – Ground Water Monitoring Well Inspection Forms (Shallow and Sandstone Wells)



P.O. BOX N50597, ALXMADATE SPRINGS FL 30715-0597 PHONE (407) 339-5984 FAX (407) 260-6110 www.flowerslabs.com

FCL/LCSWD



P.O. BOX ASDERT, ALTRANDATTE SPHINGS FL X07 15-0567 PHONE (407) 339-5084 FAX (407) 269-6110 www.flowerslabs.com

FCL/LCSWD

SITE NAME: WTE	
SITE LOCATION: Lee County	يىلىدۇند
WELL NUMBER: WTE - 2S X Shallow Deep WELL DIAMETER: 2.00"	
LOCATION:LandfillPercolation PondO&M BuildingX_WTE Site	
WELL TYPE: X Background Detection Compliance	
TOC Elevation: 24.18' TOTAL WELL DEPTH: 12.00' STATIC DEPTH TO WATER 6.3	3'
GROUNDWATER NGVD: (TOC Elevation – Static Depth to Water) <u>17.85'</u>	
Comments: (PER Monitoring Well Inspection on A12 of A19 of Contract): Everything was inspected,lock was rusty, needs to be replaced, everything O.K.	Lelse wa
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www.tiowerstabs.com

FCL/LCSWD

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DATE:2/5/14
SITE NAME:WTE
SITE LOCATION: Lee County
WELL NUMBER: WTE - 3S X_ShallowDeep WELL DIAMETER: 2.00"
LOCATION:LandfillPercolation PondO&M BuildingX_WTE Site
WELL TYPE: X Background Detection Compliance
TOC Elevation: 23.98' TOTAL WELL DEPTH: 16.15' STATIC DEPTH TO WATER 7.17'
GROUNDWATER NGVD: (TOC Elevation – Static Depth to Water) 16.81'
Comments: (PER Monitoring Well Inspection on A12 of A19 of Contract): Everything was inspected, everything was O.K
DATE:2/5/14
SITE NAME: WTE
SITE LOCATION: Lee County
WELL NUMBER: <u>WTE - 3D</u> Shallow <u>X</u> Deep WELL DIAMETER: <u>4.00"</u>
LOCATION:LandfillPercolation PondO&M Building _XWTE Site
WELL TYPE: X Background Detection Compliance
TOC Elevation: 23.91' TOTAL WELL DEPTH: 82.00' STATIC DEPTH TO WATER 8.19'
GROUNDWATER NGVD: (TOC Elevation – Static Depth to Water) <u>15.72</u>
Comments: (PER Monitoring Well Inspection on A12 of A19 of Contract): Everything was inspected, everything was O.K.



P.O. BOX 150567, ALTRIADATE SPRINGS FL 32715-0567 PHONE (407) 339-5084 FAX (407) 260-6110 www.flowerslabs.com

FCL/LCSWD Monitoring Well Inspection Form

DATE:2/5/14
SITE NAME: WTE
SITE LOCATION: Lee County
WELL NUMBER: WTE - 4S X Shallow Deep WELL DIAMETER: 2.00"
LOCATION:LandfillPercolation PondO&M BuildingX_WTE Site
WELL TYPE: X Background Detection Compliance
TOC Elevation: 22.48' TOTAL WELL DEPTH: 13.40' STATIC DEPTH TO WATER 7.23'
GROUNDWATER NGVD: (TOC Elevation – Static Depth to Water)15.25'
Comments: (PER Monitoring Well Inspection on A12 of A19 of Contract): Everything was inspected, everything was O.K.
/////////////////////////////////////
SITE NAME: WTE
SITE LOCATION: Lee County
WELL NUMBER: WTE - 4D Shallow X_Deep WELL DIAMETER: 4.00"
LOCATION:LandfillPercolation PondO&M Building _XWTE Site
WELL TYPE: X Background Detection Compliance
TOC Elevation: 23.81' TOTAL WELL DEPTH: 96.00' STATIC DEPTH TO WATER 9.55'
GROUNDWATER NGVD: (TOC Elevation – Static Depth to Water) 14.26'
Comments: (PER Monitoring Well Inspection on A12 of A19 of Contract): Everything was inspected, everything was O.K



P.O. BOX 150597, ALTRMONTE SPRINGS FL 32/15-0597 PHONE (407) 339-5984 FAX (407) 269-6110 www.flowerslabs.com

FCL/LCSWD Monitoring Well Inspection Form

SITE NAME:	WTE
SITE LOCATION:	Lee County
WELL NUMBER: WTE -	5S X Shallow Deep WELL DIAMETER: 2.00"
OCATION:Landfil	IIPercolation PondO&M BuildingX WTE Site
WELL TYPE: X E	Background Detection Compliance
COC Elevation: 23.81	TOTAL WELL DEPTH: 17.45' STATIC DEPTH TO WATER 6.21'
BROUNDWATER NGVE	D: (TOC Elevation – Static Depth to Water) <u>17.60'</u>
Everything	ing Well Inspection on A12 of A19 of Contract): g was inspected, everything was O.K.
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DATE:2/5/14 DITE NAME: DITE LOCATION:	WTE
DATE:2/5/14 DITE NAME: DITE LOCATION: WELL NUMBER: _WTE	WTE
DATE:2/5/14 DATE:2/5/14 DATE NAME: DITE LOCATION: VELL NUMBER:TE OCATION:Landfil	WTE Lee County Shallow X_Deep WELL DIAMETER: _4.00"
DATE:2/5/14 DATE:2/5/14 DITE NAME: DITE LOCATION: VELL NUMBER: _WTE_ LOCATION:Landfil WELL TYPE: _XE	WTE Lee County - 5D Shallow X_Deep WELL DIAMETER: 4.00" II Percolation Pond
WIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	WTE Lee County -5D Shallow X_Deep WELL DIAMETER: 4.00" II Percolation Pond O&M Building X Background Detection



P.O. BOX 150567, ALIRSADATE SPRINGS FL 327 15-0567 PHONE (407) 339-5984 FAX (407) 260-6110 www.flowerslabs.com

FCL/LCSWD Monitoring Well Inspection Form

SITE NAME:	WTE
SITE LOCATION:	Lee County
WELL NUMBER: WTE	-6S X_ShallowDeep WELL DIAMETER: 2.00"
LOCATION:Land	fillPercolation PondO&M BuildingX_WTE Site
WELL TYPE: X	Background Detection Compliance
FOC Elevation: 23.66'	TOTAL WELL DEPTH: 19.98' STATIC DEPTH TO WATER 8.98'
GROUNDWATER NGV	D: (TOC Elevation – Static Depth to Water) <u>14.68</u>
Comments: (PER Monito	oring Well Inspection on A12 of A19 of Contract):
	ng was inspected, lock rusty, needs to be replaced, everything else was
DATE:2/5/14_	
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DATE:2/5/14_ SITE NAME: SITE LOCATION:	WTE
DATE:2/5/14_ SITE NAME: SITE LOCATION: WELL NUMBER:	WTE Lee County
JULINIAN JULINIAN DATE: 2/5/14 DITE NAME: SITE LOCATION: WELL NUMBER: WTE LOCATION: LOCATION:	WTE Lee County E - 6D Shallow X_Deep WELL DIAMETER: 4.00"
////////////////////////////////////	WTE Lee County E - 6D Shallow X_Deep WELL DIAMETER: 4.00" fill Percolation Pond
////////////////////////////////////	WTE Lee County E_6D Shallow X_Deep WELL DIAMETER: 4.00" fill Percolation Pond O&M Building X_WTE Site Background Detection Compliance
Image:	WTE

Attachment D – Sampling Documentation (Shallow Wells)

- Ground Water (GW) Sampling Logs, FD 9000-24
- Field Data Sheet
- Chain of Custody

Ground Water (GW) Sampling Logs, FD 9000-24

SITE							TE							
NAME: W				-				e Count	<u>/</u>		-			
WELL NO:	WTE - 18	5	_	SA	MPLE ID:					DATE: 2	2/5/14	1		
		Laur					SING DA							
WELL DIAMETER	(inches): 2.0	DIAI	ING METER (inche	s): 0.25	DEPTH:	fe	INTERVAL et to fi	STATIC TO WAT	ED /facts 2 30			E PUMP TYP		
WELL VOL (only fill out	.UME PURGE if applicable)	: 1 WELL	VOLUME = (T	OTAL WEL	L DEPTH	- STA	TIC DEPTH T	O WATER) X	WELL CAPAC	ITY				
EQUIPMEN	T VOLUME P	URGE: 1 E	= (QUIPMENT V	14.6	D feet -	3. E + (TUB	.39 fe		.16 gallons/fc	t =	ICELL	1.79	gallons	
(only fill out	if applicable)				gallon			ns/foot X		H) + FLOW CELL VOLUME				
NITIAL PU	MP OR TUBIN	IG	FINAL F	UMP OR T		3.1	PURGIN		feel)	+	TT	gallons = OTAL VOLU	gallon MF	
DEPTH IN V	WELL (feet): 1	10.00	DEPTH	IN WELL (eet): 10.0	0	INITIATE	d at: 0909	ENDED AT:	0921			lons): 3.00	
TIME	VOLUME PURGED (gallons)	CUMUI VOLUM PURGE (gallons	E PURG D RATE S) (gpm	WAT	D (st	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or iS/om	DISSOLVED OXYGEN (circle units) INDAL or % saturation	TURB (NT		COLOR (describe)	ODOR (describe	
0915	2.00	2.00			19 and 10 and 10	5.84	22.0	674.0	0.30	3.7	78	none	none	
0918	0.50	2.50		0.0	10	5,82	22.1	666.0	0.31	1.8		none	none	
0921	0.50	3.00	0.21	3.5	5 6	5.81	22.1	653.5	0.28	2,1	17	none	none	
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UBING INS	QUIPMENT C	PACITY (Ga	J./F1.): 1/8" = B = Bailer;	0.0006;	3/16" = 0.0 Ider Pump	0014;	1/4" = 0.0026	5/16" = 0,1 submersible Pur	004; 3/8" = 0.		1/2" = 0	0.010; 5/8	" = 0.016	
			D Duilet,	DI - Diu			ING DA		np, PP = Pe	ristaloc P	ump;	0 = Othe	r (Specify)	
	BY (PRINT) / A		1:	SAMPLE	R(S) SIGN	ATURE	(S):		SAMPLING			SAMPLING		
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UMP OR T		0.00		TUBING					FILTERED: Y	N	F	ILTER SIZE	: um	
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			IMP Y	N		BING		laced)	DUPLICATE:	Y		N	_	
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ATERIAL C	ODES:	AG = Ambe	Glass; CG	= Clear Gla	ss; PE	= Polyet	hylene; Pl	P = Polypropyle	ne; S = Silicon	e; T=	Teflon;	Q = Other	(Specify)	
MPLING E	QUIPMENT		APP = After P RFPP = Reve			i = Bailer mp; S	; BP = BI SM = Straw M	adder Pump; ethod (Tubing C	ESP = Electric		ible Pu	mp;	1.1	
S: 1. T	he above d						by Chapter	62-160, F.A.	0.					

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

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

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable) = gallons + (gallons/foot X feet) + INITIAL PUMP OR TUBING FINAL PUMP OR TUBING DEPTH IN WELL (feet): 10.00 DEPTH IN WELL (feet): 10.00	lons
UNIX DEFINITE PORTURE PURCES DATE: 270/14 PURGING DATA PURGING DATA WELL SCREEN INTERVAL STATIC DEPTH PURGE PUMP TYPE DIAMETER (inches): 2.00 DIAMETER (inches): 0.25 DEPTH: feet to feet TO WATER (feet): 6.33 PURGE PUMP TYPE DIAMETER (inches): 0.25 DEPTH: feet to feet TO WATER (feet): 6.33 OR BAILER: RFPP WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) = (12.00 feet - 6.33 feet) X 0.16 gallons/foot = 0.91 gal Gallons + (gallons / foot X feet) + FLOW CELL VOLUME (only fill out if applicable) = gallons + (gallons/foot X feet) + gallons = = gallons + (gallons/foot X feet) + gallons = INITIAL PUMP OR TUBING PURGING TOTAL VOLUME DEPTH IN WELL (feet): 10.00 DEPTH IN WELL (feet): 10.00 PURGING PURGED (gallons):	lons
WELL TUBING WELL SCREEN INTERVAL STATIC DEPTH PURGE PUMP TYPE DIAMETER (inches): 2.00 DIAMETER (inches): 0.25 DEPTH: feet to feet TO WATER (ifeet): 6.33 OR BAILER: RFPP WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) = (12.00 feet - 6.33 feet) X 0.16 gallons/foot = 0.91 gal EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME initiAL PUMP OR TUBING = gallons + (gallons/foot X feet) + gallons = INITIAL PUMP OR TUBING ENTAL PUMP OR TUBING PURGING TOTAL VOLUME DEPTH IN WELL (feet): 10.00 DEPTH IN WELL (feet): 10.00 INITIATED AT: 0940 ENDED AT: 0953 PURGED (gallons):	lons
WELL TUBING WELL SCREEN INTERVAL STATIC DEPTH PURGE PUMP TYPE DIAMETER (inches): 2.00 DIAMETER (inches): 0.25 DEPTH: feet to feet TO WATER (ifeet): 6.33 OR BAILER: RFPP WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) = (12.00 feet - 6.33 feet) X 0.16 gallons/foot = 0.91 gal EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME initiAL PUMP OR TUBING = gallons + (gallons/foot X feet) + gallons = INITIAL PUMP OR TUBING ENTAL PUMP OR TUBING PURGING TOTAL VOLUME DEPTH IN WELL (feet): 10.00 DEPTH IN WELL (feet): 10.00 INITIATED AT: 0940 ENDED AT: 0953 PURGED (gallons):	lons
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable) = gallons + (gallons/foot X Tubing LENGTH) + FLOW CELL VOLUME INITIAL PUMP OR TUBING FINAL PUMP OR TUBING PURGING PURGING DEPTH IN WELL (reet): 10.00 DEPTH IN WELL (reet): 10.00 INITIATED AT: 0940 PURGED (gallons):	lons
INITIAL PUMP OR TUBING FINAL PUMP OR TUBING PURGING PURGING PURGING TOTAL VOLUME TOTAL VOLUME INITIATED AT: 0940 PURGED AT: 0953 PURGED (gallons):	
Innate 24. 0040 ENDED AT: 0055 PURGED (gallons):	gallor
TIME VOLUME PURGED VOLUME PURGED PURGE PURGED PURGE RATE TO WATER PH (standard (nts) TEMP. (°C) Corcle units) µmhos/cm OXYGEN (circle units) TURBIDITY (NTUs) ColOR (describe) (gallons) (gallons) (gpm) (feet) units) 0 0 Standard (°C) 0 TURBIDITY (circle units) COLOR (hTUs) COLOR (describe) (describe) (describe) (describe)	ODOR describe
0947 1.00 1.00 0.12 6.35 6.99 21.5 716.0 1.65 3.78 none	none
0950 0.25 1.25 0.12 6.35 6.98 21.6 710.0 1.52 1.87 none	none
0953 0.25 1.50 0.12 6.35 6.95 21.7 704.0 1.45 2.17 none	none
MELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 6" = 1.47; 12" = 5. IUBING INSIDE DIA. CAPACITY (Gal./FL): 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. PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Spanne); SAMPLED BY (PRINT) / AFFILIATION: SAMPLER(S) SIGNATURE(S): SAMPLING INITIATED AT: 0956 SAMPLING FUBING TUBING TUBING TUBING SAMPLEX CODE: S + PE FIELD-FILTERED: Y FILTER SIZE: FILTER SIZE:	016 ecify) 1
IELD DECONTAMINATION: PUMP Y N TUBING Y N (replaced) DUPLICATE: Y N	
SAMPLE CONTAINED SPECIFICATION SAMPLE DESCENTION	E PUMP
SAMPLE # MATERIAL VOLUME PRESERVATIVE TOTAL VOL FINAL ANALYSIS AND/OR EQUIPMENT FLOW	RATE minute)
EMARKS:	
lo sheen observed.	
o ender exective.	_
ATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Tefton; O = Other (Spec	1000

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: \pm 0.2 units Temperature: \pm 0.2 °C Specific Conductance: \pm 5% Dissofved Oxygen: all readings \leq 20% saturation (see Table FS 2200-2); optionally, \pm 0.2 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: W	/TE					SI LC		ee Count	v				
WELL NO:	WTE - 48	3		SA	MPLE ID:					DATE	2/5/1	4	
				1			ING DA	ТА		Ditte	21011		
WELL VOI (only fill ou	LUME PURGE it if applicable))0 DI/ : 1 WELL	METER (inche VOLUME = (1	OTAL WEL	WELL S DEPTH DEPTH	SCREEN I fe - STA	NTERVAL et to 1 TIC DEPTH 1	eet TO WAT O WATER) X el) X (ER (feet): 7.23 WELL CAPAC	001 =	OR B	E PUMP T AILER. RF 0.99	PP
EQUIPMEN only fill ou	NT VOLUME F I if applicable)	URGE: 1	EQUIPMENT V	OL. = PUMI =	VOLUM gallor			TY X T	UBING LENGTH		WCELL		
				UMP OR T	JBING		PURGIN		PURGING	/.	13	gallons TOTAL VOI	
DEPTH IN	WTE – 4S TUBING DIAMETER (in UME PURGE: 1 WELL VOLUME: if applicable) IT VOLUME PURGE: 1 EQUIPMEN If applicable) MP OR TUBING (gallons) WELL (feet): 10.00 VOLUME PURGED (gallons) (gallons) (gal	DEPTH	IN WELL (fe	eet): 10.0	00	INITIATE	DAT: 1008	ENDED AT:	1024	F	PURGED (gallons): 1.5		
TIME	PURGED (gallons)	VOLUI PURG (gallor	ME PURC ED RAT Is) (gpm	E WAT) (fee) ER (s el)	pH tandard units)	TEMP. (^o C)	COND. (circle units) µmhos/cm or is/cm	DISSOLVED OXYGEN (circle units)		BIDITY TUs)	COLO (descrit	
1018				1.2		7.06	26.6	550.0	0.52		.33	none	none
1021			0.0.			7.05	26.8	547.0	0.48		.35	none	none
1024	0.25	1.50	0.09	7.2	5	7.05	26.8	542.0	0.44	1.	.17	none	e none
SAMPLED I FOMMY	EQUIPMENT C BY (PRINT) / A Y Cross/	FFILIATIO	B = Bailer;	0.0006; BP = Blac SAMPLE TUBING	3/16" = 0. der Pump	0014; b; ES AMPL NATURE(1/4" = 0,0026 P = Electric (.ING DA (S):	5; 5/16" = 0. Submersible Pur TA	004; 3/8" = 0	.006; eristaltic : 1027	1/2" = Pump;	0.010; E O = Ot SAMPLING ENDED AT	
ELD DEC	ONTAMINATIO	DN: P	UMP Y	N	TU	BING	Y N (rej	laced)	DUPLICATE:	Y	1	N	
SAMP	LE CONTAINE	R SPECIF	ICATION		SAM	PLE PRE	SERVATION		INTENDE	o I		PLING	SAMPLE PUM
D CODE	# CONTAINERS		VOLUME	PRESER			DTAL VOL IN FIELD (m	FINAL L) pH	ANALYSIS AN METHOD			PMENT ODE	FLOW RATE (mL per minute
-													
		-	-							1			
										-			
EMARKS:		4											
	n observed	d. AG = Amba	ar Glass' CG	= Clear Gla	se. De	= Polyet	hylene: P	P = Polypropyle	ne; S = Sillcor				ner (Specify)

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

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

NAME: W	TTT					ITE	1 Carlorad				
SAUTELL STOP				-			ee Count	у			
WELL NO:	WTE - 65	3		SAMP	LE ID: WTE	ALC .			DATE: 2/5/	14	
						GING DA	TA				
WELL VOL	(inches): 2.0 UME PURGE: if applicable)	0 DIAN 1 WELL V	ETER (inches	s) 0.25 C	VELL SCREEN DEPTH: fr EPTH – STA	el to I	STATIC TO WAT TO WATER) X	DEPTH ER (feel): 8.98 WELL CAPAC	2 00	RGE PUMP TY BAILER: RF	
EQUIPMEN (only fill out	IT VOLUME P	URGE: 1 E	= (QUIPMENT V	OL. = PUMP V	OLUME + (TUE	BING CAPACI	түх т).16 gallons/f UBING LENGTH	001 = 1) + FLOW CE	1.76 LL VOLUME	gallons
and the second second	MP OR TUBIN WELL (feet): 1			= UMP OR TUB IN WELL (feet)		PURGIN	IG ED AT: 1036	PURGING		gallons = TOTAL VOL	UME
TIME	VOLUME PURGED (gallons)	CUMUL VOLUM PURGEI (gallons	E PURG D RATE) (gpm)	E DEPTH TO WATER (feet)	pH	TEMP. (°C)	COND, (circle units) µmhos/cm or us/citi	ENDED AT: DISSOLVED OXYGEN (circle units) MSM or % saturation	TURBIDIT (NTUs)		
1041	2.00	2.00	0.23	9.04	7.14	25.0	500.0	0.22	4.27	none	none
1044	0.50	2.50	0.23	9.04	7,12	25.0	498.2	0.19	4.40	none	
1047	0.50	3.00	0.23	9.04	7.10	25.0	497.2	0.17	3.05	none	and the second second
URGING E	QUIPMENT C	ODES:	B = Bailer;	0.0006; 3/1 BP = Bladde	5" = 0.0014; Pump; ES SAMPI	1/4" = 0,0026 SP = Electric S _ING DA	5: 5/16" = 0. Submersible Pu			= 0.010; 5	12" = 5,88 /8" = 0,016 ner (Specify)
URGING E	SIDE DIA, CAP	ODES:	B = Bailer;	0.0006; 3/1 BP = Bladde	5" = 0.0014; Pump; E	1/4" = 0,0026 SP = Electric S _ING DA	5; 5/16" = 0. Submersible Pur TA	004: 3/8" = 0 mp: PP = Pe SAMPLING	.006; 1/2" eristaltic Pump	= 0.010; 5 ; 0 = 0th SAMPLING	/8" = 0.016 her (Specify)
AMPLED B	OUPMENT C PY (PRINT) / A Cross/ 1 UBING	ODES: FFILIATION: FCL	B = Bailer;	D.0006; 3/1 BP = Bladdel SAMPLER(S TUBING	5" = 0.0014; Pump; ES SAMPI 3) SIGNATURE	1/4" = 0.0026 SP = Electric S LING DA (S):	5: 5/16" = 0. Submersible Pur TA FIELD	004; 3/8" = 0 mp; PP = Pe SAMPLING INITIATED AT	.006; 1/2" eristaltic Pump r: 1050	= 0.010; 5 ; O = 01h SAMPLING ENDED AT	/8" = 0.016 her (Specify)
AMPLED B OMPLED B OMMY UMP OR T EPTH IN W	IDE DIA, CAP QUIPMENT C Y (PRINT) / A CROSS/ 1 UBING VELL (feet): 1	FFILIATION: FCL 5.00	./Ft.): 1/8" = B = Bailer;	D.0006; 3/1 BP = Bladder SAMPLER(S TUBING MATERIAL	5" = 0.0014; Pump; ES SAMPI S) SIGNATURE CODE: S + P	$\frac{1/4" = 0.0026}{\text{SP} = Electric S}$ $\frac{1NG DA}{(S)}$ E	5: 5/16" = 0. Submersible Pur TA FIELD FIELD	004; 3/8" = 0 mp; PP = Pe SAMPLING INITIATED AT FILTERED; Y on Equipment Typ	.006; 1/2": eristaltic Pump T: 1050	= 0.010; 5 ; O = Olh SAMPLING ENDED AT FILTER SIZ	//8" = 0.016 ner (Specify)
AMPLED B COMMY UMP OR T EPTH IN W IELD DECC	Y (PRINT) / A Cross/ I UBING /ELL (feet): 1	FFILIATION: FCL 5.00	MP Y	D.0006; 3/1 BP = Bladdel SAMPLER(S TUBING	SODE: S + P TUBING	1/4" = 0.0026 BP = Electric S _ING DA (S): E E Y N(rep	5: 5/16" = 0. Submersible Pur TA FIELO FIELO Filtrato	004; 3/8" = 0 mp; PP = Pe SAMPLING INITIATED AT FILTERED: Y DOPLICATE; UPLICATE;	.006; 1/2": eristaltic Pump r: 1050 N pe: Y	= 0.010; 5 ; O = OIh SAMPLING ENDED AT FILTER SIZ	//8" = 0.016 her (Specify) 3 5 1055 2: 1055 2: μm
AMPLED B OMMPLED B OMMY UMP OR T EPTH IN W IELD DECC SAMPL AMPLE	IDE DIA, CAP QUIPMENT C Y (PRINT) / A CROSS/ 1 UBING VELL (feet): 1	FFILIATION: FCL 5.00	MP Y	D.0006; 3/1 BP = Bladder SAMPLER(S TUBING MATERIAL	3" = 0.0014; Pump; ES SAMPI S) SIGNATURE CODE: S + P TUBING SAMPLE PRE TIVE T0	1/4" = 0.0026 BP = Electric S _ING DA (S): E E Y N(rep	Si 5/16" = 0. Submersible Pur TA FIELD FIELD Filtratic placed)	004; 3/8" = 0 mp; PP = Pe SAMPLING INITIATED AT FILTERED; Y on Equipment Typ	1.006; 1/2": eristaltic Pump r: 1050 No: Y SD SA ND/OR EQL	= 0.010; 5 ; O = OIh SAMPLING ENDED AT FILTER SIZ N MPLING JIPMENT	/8" = 0.016 her (Specify) : : 1055 :: : : : : : : : : : : : : : : : : :
AMPLED B COMMY UMP OR T EPTH IN W IELD DECC SAMPL	QUIPMENT C QUIPMENT C Y (PRINT) / A C Cross/ I UBING VELL (feet): 1 DNTAMINATIO E CONTAINE #	FFILIATION: FCL 5.00 N: PU R SPECIFIC MATERIAL	MP Y ATION	D.D006; 3/1 BP = Bladde SAMPLER(: TUBING MATERIAL N PRESERVA	3" = 0.0014; Pump; ES SAMPI S) SIGNATURE CODE: S + P TUBING SAMPLE PRE TIVE T0	1/4" = 0.0026 SP = Electric S ING DA (S): E Y N (rep SERVATION DTAL VOL	Si 5/16" = 0. Submersible Pur TA FIELD FIELD Filtratic placed)	004; 3/8" = 0 mp; PP = Pe SAMPLING INITIATED AT INITIATED AT FILTERED: Y SAUDER DUPLICATE; INTENDE ANALYSIS AN	1.006; 1/2": eristaltic Pump r: 1050 No: Y SD SA ND/OR EQL	= 0.010; 5 ; O = OIh SAMPLING ENDED AT FILTER SIZ N MPLING JIPMENT	/8" = 0.016 her (Specify) : : 1055 :: : : : : : : : : : : : : : : : : :
AMPLED B COMMY UMP OR T EPTH IN W IELD DECC SAMPL	QUIPMENT C QUIPMENT C Y (PRINT) / A C Cross/ I UBING VELL (feet): 1 DNTAMINATIO E CONTAINE #	FFILIATION: FCL 5.00 N: PU R SPECIFIC MATERIAL	MP Y ATION	D.D006; 3/1 BP = Bladde SAMPLER(: TUBING MATERIAL N PRESERVA	3" = 0.0014; Pump; ES SAMPI S) SIGNATURE CODE: S + P TUBING SAMPLE PRE TIVE T0	1/4" = 0.0026 SP = Electric S ING DA (S): E Y N (rep SERVATION DTAL VOL	Si 5/16" = 0. Submersible Pur TA FIELD FIELD Filtratic placed)	004; 3/8" = 0 mp; PP = Pe SAMPLING INITIATED AT INITIATED AT FILTERED: Y SAUDER DUPLICATE; INTENDE ANALYSIS AN	1.006; 1/2": eristaltic Pump r: 1050 No: Y SD SA ND/OR EQL	= 0.010; 5 ; O = OIh SAMPLING ENDED AT FILTER SIZ N MPLING JIPMENT	/8" = 0.016 her (Specify) : : 1055 :: : : : : : : : : : : : : : : : : :
AMPLED B COMMY UMP OR T EPTH IN W IELD DECC SAMPL	QUIPMENT C QUIPMENT C Y (PRINT) / A C Cross/ I UBING VELL (feet): 1 DNTAMINATIO E CONTAINE #	FFILIATION: FCL 5.00 N: PU R SPECIFIC MATERIAL	MP Y ATION	D.D006; 3/1 BP = Bladde SAMPLER(: TUBING MATERIAL N PRESERVA	3" = 0.0014; Pump; ES SAMPI S) SIGNATURE CODE: S + P TUBING SAMPLE PRE TIVE T0	1/4" = 0.0026 SP = Electric S ING DA (S): E Y N (rep SERVATION DTAL VOL	Si 5/16" = 0. Submersible Pur TA FIELD FIELD Filtratic placed)	004; 3/8" = 0 mp; PP = Pe SAMPLING INITIATED AT INITIATED AT FILTERED: Y SAUDER DUPLICATE; INTENDE ANALYSIS AN	1.006; 1/2": eristaltic Pump r: 1050 No: Y SD SA ND/OR EQL	= 0.010; 5 ; O = OIh SAMPLING ENDED AT FILTER SIZ N MPLING JIPMENT	/8" = 0.016 her (Specify) : : 1055 :: : : : : : : : : : : : : : : : : :
AMPLED B COMMY UMP OR T BEPTH IN W IELD DECC SAMPLE DCODE	POLE DIA: CAR QUIPMENT C PY (PRINT) / A CONSS/ I UBING VELL (feet): 1 DNTAMINATIO E CONTAINE CONTAINERS	FFILIATION: FCL 5.00 N: PU R SPECIFIC MATERIAL CODE	MP Y ATION	D.D006; 3/1 BP = Bladde SAMPLER(: TUBING MATERIAL N PRESERVA	3" = 0.0014; Pump; ES SAMPI S) SIGNATURE CODE: S + P TUBING SAMPLE PRE TIVE T0	1/4" = 0.0026 SP = Electric S ING DA (S): E Y N (rep SERVATION DTAL VOL	Si 5/16" = 0. Submersible Pur TA FIELD FIELD Filtratic placed)	004; 3/8" = 0 mp; PP = Pe SAMPLING INITIATED AT INITIATED AT FILTERED: Y SAUDER DUPLICATE; INTENDE ANALYSIS AN	1.006; 1/2": eristaltic Pump r: 1050 No: Y SD SA ND/OR EQL	= 0.010; 5 ; O = OIh SAMPLING ENDED AT FILTER SIZ N MPLING JIPMENT	/8" = 0.016 her (Specify) : 1055 :E: μm SAMPLE PUM
AMPLED B COMMY UMP OR T BEPTH IN W IELD DECC SAMPLE DCODE	ADE DIA: CAR QUIPMENT C VY (PRINT) / A CONSS/ I UBING VELL (feet): 1 DONTAMINATIO E CONTAINE CONTAINERS CONTAINERS	FFILIATION: FCL 5.00 N: PU R SPECIFIC MATERIAL CODE	MP Y ATION VOLUME	D.D006; 3/1 BP = Bladde SAMPLER(: TUBING MATERIAL N PRESERVA	3" = 0.0014; Pump; ES SAMPI S) SIGNATURE CODE: S + P TUBING SAMPLE PRE TIVE T0	1/4" = 0.0026 SP = Electric S ING DA (S): E Y N (rep ESERVATION DTAL VOL DIN FIELD (m	Si 5/16" = 0. Submersible Pur TA FIELD FIELD Filtratic placed)	004; 3/8" = 0 mp; PP = Pe INITIATED AT FILTERED: Y on Equipment Typ DUPLICATE; INTENDE ANALYSIS AN METHOI	1/2": eristaltio Pump r: 1050 N pae: Y SD D/OR EQL D SA EQL D	= 0.010; 5 ; O = OIh SAMPLING ENDED AT FILTER SIZ N MPLING JIPMENT CODE	/8" = 0.016 her (Specify) : : 1055 :: : : : : : : : : : : : : : : : : :

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

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

NAME: W	FT-F-					ITE					
States a series		-					ee Count	у			
WELL NO:	WTE - 58	3		SAMPL	EID: WTE				DATE: 2/5/	14	
		1				GING DA					
WELL VOL	R (inches): 2.0 LUME PURGE I If applicable)	DO DIAN 1 WELL V	METER (inche VOLUME = (T	s): 0.25 DE OTAL WELL DE	PTH - ST/	aet Io f	OWATER) X	ER (feet). 6.21	OR I	RGE PUMP TY BAILER: RFI	
EQUIPMEN (only fill out	NT VOLUME P Lif applicable)	URGE: 1 E	= (QUIPMENT V	17.45 fee OL. = PUMP VO	LUME + (TU	BING CAPACI	ту х т).16 gallons/fi UBING LENGTH	bot =) + FLOW CEI	1.80 LL VOLUME	gallons
	MP OR TUBIN	10		= g	allons + (ons/loot X	feet)+	gallons =	
	WELL (feet): 1			IN WELL (feel):	E	PURGIN	D AT: 1101	PURGING ENDED AT:	1112	TOTAL VOL	UME allons): 3.00
TIME	VOLUME PURGED (gallons)	CUMUL VOLUMI PURGEI (gallons	E PURG	E DEPTH TO WATER	pH (standard units)	TEMP. (°C)	COND. (circte units) µmhos/cm or IS/cm	DISSOLVED OXYGEN (circle units) http://www.saturation	TURBIDITY (NTUs)		ODOR
1106	2.00	2.00	0.23	6.45	6.94	24.2	587.0	0.50	1,59	none	none
1109	0.50	2.50	0.23	6.45	6.89	24.3	587.0	0.44	1.38	none	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1112	0.50	3.00	0.23	6.45	6.85	24.3	588.0	0.32	1.38	none	
		CITY (Gallons Per Fool): 0.75" = 0.02; DE DIA, CAPACITY (Gal./Ft.): 1/8" = 0 2019MENT CODES: B = Baller; (PRINT) / AFFILIATION: Cross/ FCL									
UBING INS URGING E AMPLED E TOMMY UMP OR T EPTH IN W	SIDE DIA, CAR EQUIPMENT C BY (PRINT) / A / Cross/ UBING VELL (feet); 1	FFILIATION: FCL 0,00	./Ft.): 1/8" = B = Beller;	0.0006; 3/16" BP = Bladder P SAMPLER(S) TUBING MATERIAL CC	= 0.0014; Pump; E: SAMP SIGNATURE DDE: S + F	1/4" = 0.0026 SP = Electric S LING DA ((S):	5: 5/16" = 0, Submersible Pur TA FIELD-	004; 3/8" = 0.	006; 1/2" ristaltic Pump; : 1115	= 0.010; 5. ; O = Oth SAMPLING ENDED AT	
UBING INS URGING E AMPLED E OMMY UMP OR T EPTH IN W IELD DECC	SIDE DIA, CAR EQUIPMENT C BY (PRINT) / A / Cross/ UBING VELL (feet): 1 DNTAMINATIC	FFILIATION: FFILIATION: FCL 0,00 N: PUI	/Ft.): 1/8" = B = Baller; MP Y	0.0006; 3/16" BP = Bladder P SAMPLER(S) TUBING MATERIAL CC	= 0.0014; Pump; E SAMP SIGNATURE DDE: S + F TUBING	1/4" = 0.0026 SP = Electric S LING DA ((S): E Y N (réf	5: 5/16" = 0. Submersible Pur TA FIELD- FIELD- Filtratic	004; 3/8" = 0. mp; PP = Pe SAMPLING INITIATED AT FILTERED: Y	006; 1/2" ristaltic Pump; : 1115	= 0.010; 5. ; O = Oth SAMPLING ENDED AT	/8" = 0.016 er (Specify) : 1120
UBING INS URGING E AMPLED E OMMY UMP OR T EPTH IN W IELD DECC SAMPL	SIDE DIA, CAR EQUIPMENT C BY (PRINT) / A / Cross/ UBING VELL (feet): 1 DNTAMINATIC LE CONTAINE	FILIATION: FFILIATION: FCL 0.00 N: PUI R SPECIFIC	/Ft.): 1/8" = B = Baller; MP Y	0.0006; 3/16" BP = Bladder P SAMPLER(S) TUBING MATERIAL CC	= 0.0014; Pump; E SAMP SIGNATURE DDE: S + F TUBING SAMPLE PR	1/4" = 0.0026 SP = Electric S LING DA (S): E Y N (rép ESERVATION	5: 5/16" = 0. Submersible Pur TA FIELD- FIELD- Filtrato placed)	004; 3/8" = 0. mp; PP = Pe SAMPLING INITIATED AT FILTERED: Y on Equipment Typ DUPLICATE; INTENDE	006; 1/2"; rlstaltic Pump; : 1115 :e: Y D SA	SAMPLING SAMPLING ENDED AT FILTER SIZ	/8" = 0.016 er (Specify) : 1120 E: µm SAMPLE PUMF
UBING INS URGING E AMPLED E OMMY UMP OR T EPTH IN W IELD DECC SAMPL AMPLE	SIDE DIA, CAR EQUIPMENT C BY (PRINT) / A / Cross/ UBING VELL (feet): 1 DNTAMINATIC	FFILIATION: FFILIATION: FCL 0,00 N: PUI	/Ft.): 1/8" = B = Baller; MP Y	0.0006; 3/16" BP = Bladder P SAMPLER(S) TUBING MATERIAL CC	= 0.0014; Pump; E SIGNATURE SIGNATURE DDE: S + F TUBING SAMPLE PR VE T	1/4" = 0.0026 SP = Electric S LING DA ((S): E Y N (réf	5: 5/16" = 0. Submersible Pur TA FIELD- Filtratic Diaced)	004; 3/8" = 0. mp; PP = Pe SAMPLING INITIATED AT FILTERED: Y on Equipment Typ DUPLICATE:	006; 1/2"; ristaltic Pump; : 1115 N e: Y D D D SA D/OR EQL	= 0.010; 54 ; O = Oth SAMPLING ENDED AT FILTER SIZ	/8" = 0.016 er (Specify) : 1120 E: µm E: µm SAMPLE PUMR FLOW RATE
UBING INS URGING E AMPLED E OMMY UMP OR T EPTH IN W IELD DECC SAMPL AMPLE	SIDE DIA, CAR QUIPMENT C BY (PRINT) / A / Cross/ UBING VELL (reet); 1 DNTAMINATIC LE CONTAINE #	FILIATION: FFILIATION: FCL 0.00 DN: PUI R SPECIFIC MATERIAL	./Ft.): 1/8" = B = Baller; MP Y ATION	0.0006; 3/16" BP = Bladder F SAMPLER(S) TUBING MATERIAL CC N PRESERVATI	= 0.0014; Pump; E SIGNATURE SIGNATURE DDE: S + F TUBING SAMPLE PR VE T	1/4" = 0.0026 SP = Electric S LING DA (S): E Y N (rép ESERVATION OTAL VOL	5: 5/16" = 0. Submersible Pur TA FIELD- Filtratic Diaced)	004; 3/8" = 0. mp; PP = Pe SAMPLING INITIATED AT FILTERED: Y mequipment Typ DUPLICATE: INTENDE ANALYSIS AN	006; 1/2"; ristaltic Pump; : 1115 N e: Y D D D SA D/OR EQL	= 0.010; 54 ; O = Oth SAMPLING ENDED AT FILTER SIZ	/8" = 0.016 er (Specify) : 1120 Ε: μm SAMPLE PUMF FLOW RATE
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2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

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

NAME: W	111-					ITE						
WELL NO.		2D		1			e Count	y I				
	WIE - 30	SR		SAMP	LE ID: WTE				DATE: 2/5/	14		
WELL		70	BING	1.0		GING DA						
DIAMETER	R (inches): 2,0 UME PURGE	00 DIA	METER (inche	(s) 0.25 D	VELL SCREEN EPTH: M EPTH - ST/	set to fi	eet TO WAT O WATER) X	DEPTH ER (feet): 7.17 WELL CAPAC	00	IGE PUMP TY BAILER: RF		
	t if applicable)	PURGE: 11	= (dia trans	et- 7	17 6	oi) V (io).16 gallons/f UBING LENGTH	oot ≈	1.44	gellons	
Only in ou	(in applicable)			=	gallons + (gallo	ns/foot X	feel)+	gallons =	gallor	
	MP OR TUBIN			PUMP OR TUBI	The second second	PURGIN		PURGING		TOTAL VOLU		
JEPTH IN	WELL (feet): 1	1		IN WELL (feet)	1	INITIATE	d at: 1126	ENDED AT:	1154	PURGED (gallons): 2.		
TIME	VOLUME PURGED (gallons)	CUMU VOLUM PURGI (gallon	ME PURC ED RAT (gpm	E WATER	pH	TEMP. (^O C)	COND. (circlę units) µmhos/cm or 187cm	DISSOLVED OXYGEN (circle units)	TURBIDIT (NTUs)	Y COLOR (describe		
1142	1.50	1.50	1	9 7.17	6.91	25.3	516.0	0.41	12.00	none	none	
1148	0,50	2.00	0.0	9 7.17	6.89	25.5	514.0	0.48	16.20	none	none	
1154	0.50	2,00	0.0	9 7.17	6.90	25.5	512.0	0.45	12.40	none	none	
UBING INS	ACITY (Gallon SIDE DIA, CAI	PACITY (G	: 0.75" = 0.02 al./Ft.): 1/8" = B = Bailer;	2; 1" = 0.04; 0.0006; 3/16 BP = Bladder	" = 0.0014;	1/4" = 0.0026	3" = 0.37; 5/16" = 0.	004; 3/8" = 0.		= 0.010; 5/	2" = 5.88 8" = 0.016 er (Specify)	
URGING INS	SIDE DIA, CAI	PACITY (Gi CODES:	al./Ft.): 1/8" = B = Bailer;	0.0006; 3/16 BP = Bladder	" = 0.0014; Pump; E: SAMP	1/4" = 0.0026 SP = Electric S	5/16" = 0. ubmersible Pur	004; 3/8" = 0.	006; 1/2"	= 0.010; 5/	8" = 0.016	
AMPLED E	SIDE DIA, CAI QUIPMENT C BY (PRINT) / A CTOSS/	PACITY (Gi CODES:	al./Ft.): 1/8" = B = Bailer;	0.0006; 3/16 BP = Bladder	" = 0.0014; Pump; E	1/4" = 0.0026 SP = Electric S	5/16" = 0. ubmersible Pur TA	004; 3/8" = 0.	.006; 1/2" ristaltic Pump	= 0.010; 5/	8" = 0.016 er (Specify)	
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2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

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

Field Data Sheets

FIELD DATA SHEET

and them

Project Name	<u>ee Co</u>	unty:	WTE	Semi-/	Annual M	AWs					
Sample Type 🏾 🗍	ww	ŚW		GW	DW	Reng.Wu.	Studg	6	Sadimant	Bol	Other
Sample Site Indentil	ication V	NTE-	1S, W	/TE-25	, WTE-4	S, WTE-	6S, WT	E-55, W	e-3SR		
Sampling Method		Grab [Compos			Well IN		Mar 🗍	Pump	X
Sampling Equipmen	1 perist	altic.)	oump	polvet	hylene a	and silico	n tubino	1		- 1	
Site & Weather Con				d warm							
Field Instrument B	ginning	Calibr	ation							145	Slope
pH Meter	YEB	X	NO	1.	Bulfer	4.0	4.00	7.0	7.00	10.0	10.00
Conductivity Meter	YES	X	NO		Buffer		1.00	1413	1413	4	-10.00
Turbidity Meter	YES	X	NO	1	Buffer			10.00	10.02	4	
DO Meter	YES	X	NO		Butter		satura		10.02	237	
Etald Fillenad	[] una	10		Di untra			y outard	the second second			in and the second se
Field Filtered	1 YES	KI NO		Duplic	ate LIYE	S X NO		Held Deco	ntamination	X YES [] NO
Parameter		Sampl	e Contu	liners		pH C	heck	They I	Diameter	3.4.	Wallas
XI Nutrient	Plastic -	HESO4	_		5	<2		1.5 In	ches	0.	ittiplier 092
💢 Metais	Plastic -	HNQ3				<2		2.0 in 4.0 in			163 653
Sulfide	Plastic -	NaDH/	Zn Aceb	ato		< 12		6.0 m			469
Cyanida	Plastic -	NaDH/	Zn (No e	ulide)/Asc	bioA oldrice	> 12		L			
Bacieriological	Gisas - 7	hlosulta	te (DW	NO Chlorie	ne Rea)						
Dil & Greate	Glass - H	ICI				<2					
отос	Plastic -	HCI				<2					
X VOA	Glass - H	ICI				<2					
Svoc	Glass - H	ICI (DW	NO Ch	orine Res)							
Phenols	Glass - H	12504				<2					
X Other	Unpreser	ved									
ield Instrument En	ding Cali	bration	1								
pH Meter	YES	X	NO		Buffer	4.0		7.0	6,97	10.0	
Conductivity Meter	YES	X	NO		Butter	1		1413	1383		
boliodonivity weier	YES	X	NO		Butter			10,00	10.00	. 57	
Furbidity Meter								on		1	

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CHEMICAL LABORATORIES

Chain of Custodies

Flowers Chemical Labs-North Flowers Chemical Labs-North Flowers Chemical Labs-North Labs-North Labs-Keys B12 S.W. Harvey Greene Dr. Madison, FL 32340 B12 S.W. Harvey Greene Dr. Marathon, FL 33050 Flowers Chemical Bus: 850-973-6878 Fax: 305-743-8598 Fax: 305-743-8598 Fax: 850-973-6878 Fax: 305-743-8598 Fax: 305-743-8598 S OF CUSTODY www.flowerslahs.com Image Chemical Image Chemical	Project Name Crient Contact	Lower (Lower (Due Date OR APPLY ALSh Charges May Apply		PRESERVATIVES ANALYSES / W W / V COMMENTS	vaste 🛒	and / / Ministra			3			7 777771777	V 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				Date Time Relinquished By / Affiliation Date Time Accepted By / Affiliation Date Time	2/10/10/1220 2/10/14 1223
cal [14] La Plaza lia Plaza 34986 811 Ma 34986 Bu Bu Bu AND CHAINS					Date Sampled ユ ベーバイ	WW - wast sL - sludge	TIME MATRIX (LAB U	0925 (y/) 2278	0956	1027	1050		1157 L	- Det V	N			Accepted By / Affiliation	
Teowers Chemical Labs-South West Park Industrial P 571 N.W. Mercantile F Port Lucie, FL 349 Bus: 772-343-8006 Fax: 772-343-8009 Fax: 772-343-8009	.01			ross	Lang (DW - drinking water SO - soil/solid S	DATE	215/4 0	0	1	-	H	=	_{				Date Time	
Flowers Chemical Flowers Chemical Laboratories. Inc. Labs-South Labs-South West Park Industr 481 Newburyport Ave. West Park Industr Attamonte Springs, FL 32701 571 N.W. Mercant Bus: 407-260-6110 Fax: 772-343-808 Fax: 407-260-6110 Fax: 772-343-808 DOWNLOAD REPORTS, INVOICES INVOICES	Glient Lec C Address		глопе	Sampled By (PRINT):	Sampler Signature	<u>GW-ground</u> water SW - surface water	ITEM SAMPLE ID	1 WE-15	2 WTE-25	3 WTE-45	4 WF.65	5 WTE-55	6 WTE-35R	7 Trip Blowk	80	Ø	10	Rolinquished By / Affiliation	

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