

April 26, 2012

Mr. F. Thomas Lubozynski, P.E. Waste Program Administrator Solid and Hazardous Waste Program Florida Department of Environmental Protection, Central District 3319 Maguire Boulevard, Suite 232 Orlando, Florida 32803-3767

Re: J.E.D. Solid Waste Management Facility Abandonment and Replacement
Water Quality Monitoring Wells MW-22 (A, B and C) Omni Waste of Osceola County, LLC
1501 Omni Way
St. Cloud, FL
WACS Facility ID 89544

Dear Mr. Lubozynski:

Submitted herewith is the subject report documenting the abandonment and subsequent replacement of water quality monitoring well cluster MW-22 (A, B and C) at the referenced facility. This report is being submitted as required for compliance with the conditions contained within the Monitoring Plan Implementation Schedule (MPIS) for the Permit (SO49-0199726-015) and the requirements as described in paragraph 62-701.510(3)(d)1 of the Florida Administrative Code (FAC).

One electronic copy and one hard copy of the installation are being submitted to FDEP. The electronic copy contains a pdf of the entire report saved on a compact disk (CD). One CD is attached to the inside front cover of the report binder.

If you have any questions or need additional information, please do not hesitate to contact the undersigned at (813) 418-2007.

Sincerely, Rolf T

Robert Thompson Florida P.G. #2560

Attachments

Copy: Mike Kaiser, WSI Kirk Wills, WSI

Prepared for:



Waste Services, Inc. 2893 Executive Park Drive, Suite 305 Weston, Florida 33331

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WATER QUALITY MONITORING WELL INSTALLATION REPORT (CLUSTER MW-22R)

J.E.D. SOLID WASTE MANAGEMENT FACILITY

OSCEOLA COUNTY, FLORIDA

Prepared by:



Geo-Services and Consulting, LLC 23110 State Road 54, Number 159 Lutz, Florida 33549 (813) 418-2007

April 2012

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Re: J.E.D. Solid Waste Management Facility Abandonment and Replacement Water Quality Monitoring Wells MW-22 (A, B and C) Omni Waste of Osceola County, LLC 1501 Omni Way St. Cloud, FL WACS Facility ID 89544

Dear Mr. Lubozynski:

Geo-Services and Consulting, LLC (GS&C) on behalf of Omni Waste of Osceola County, LLC (Omni) has prepared this report documenting the abandonment and subsequent replacement of water quality monitoring well cluster MW-22 (A, B and C) at the referenced facility. Omni is in final stages of construction of the Cell 8 disposal area located due north of abandoned monitoring well cluster MW-22 (A, B and C). Monitoring well cluster MW-22 was abandoned because they were initially installed in a temporary location on the Phase 3 storm water retention berm until the perimeter berm of Cell 8 could be constructed to allow installation in a final location. Omni requested approval to perform the abandonment in correspondence dated November 10, 2011, which was approved by the Florida Department of Environmental Protection (FDEP), Central District Solid Waste Permitting Section, via e-mail on November 10, 2011. Abandonment was performed on November 11, 2011 and replacement was performed until certain construction activities had been complete for Cell 8 (i.e. perimeter road and berm placement and grading). Abandonment and drilling activities were performed by National Environmental Technology, Inc., (NET) a Florida licensed drilling contractor.

Monitoring Well(s) Abandonment

Abandonment was overseen by Mr. Robert Thompson of GS&C on November 11, 2011. Photographs documenting the abandonment activities are included in **Attachment I** and a copy of the regulatory permit is included as **Attachment II**. Monitoring well cluster MW-22 consisted of three 2-inch diameter wells, A, B and C Zone (15, 35 and 65 feet below land surface [bls]). The well casing material for the shallowest of the monitoring wells (A Zone) was removed from the entire subsurface and the location was abandoned using Portland Type I grout from the point of collapse to land surface.

JED Solid Waste Management Facility Monitoring Well Abandonment and Replacement April 26, 2012 Page 2 of 4



The land surface elevation at monitoring well cluster MW-22 at the time of abandonment was approximately 85 feet National Geodetic Vertical Datum (NGVD) 1929. Because of concerns relative to the potential for impacts to the future landfill base liner of Cell 13, the remaining monitoring wells (B and C Zone) were abandoned using the following procedure;

• The remaining wells (B and C Zone) were abandoned using Portland Type 1 grout placed from the bottom up through tremie pipe to approximately ten (10) feet bls. The volume of grout needed to abandon the 2 inch diameter monitoring wells was estimated using the following,

$$V = \pi r^2 h$$

Where:

V = volume of a cylinder (cubic feet)

r = radius (feet)

 $\pi = 3.14$

h = total depth of well (feet) then;

- Over-drilled the B and C Zone monitoring wells using 6^{5/8} inch inside diameter hollow stem augers to approximately ten feet bls thereby removing remaining PVC well material to approximately 75 feet NGVD 1929;
- Prior to removal of the hollow stem augers, Portland Type I grout was poured from land surface, filling the augers to approximately one foot bls and each location was subsequently restored using soil from the site.

Monitoring Well(s) Installation

Location of replacement monitoring well cluster MW-22R is shown on **Figure 1**. Installation and well development activities were overseen by Mr. Joe Terry of Waste Services, Inc. (WSI) beginning on March 14 and ending on March 16, 2012. Replacement monitoring well cluster MW-22R (A, B and C) was installed using hollow stem augers (HSA) with an inside diameter of 4.25 inches. Installation of MW-22R (C Zone) cluster included recording of blow counts on five foot centers during collection of split spoon samples from 15 to 67 feet bls. Copies of applicable permits and split spoon data are included in **Attachment II**.



Review of split spoon data indicates the lithology from 15 to 65 feet bls consists predominantly of very loose to loose silty sands/sand-silt mixtures of varying colors consisting of tan, brown and gray. From 65 to 67 feet bls the lithology consists of gray to green loose silty or clayey fine sand. These observations are consistent with previous results.

Well construction logs, well development logs and FDEP Forms 62-701.900(30) are included in **Attachment III**. The wells were constructed within the augers to ensure proper placement of filter pack material around the screened sections. Each of the monitoring wells which make up the MW-22R cluster is constructed of 10 feet of 2 inch inside diameter, 0.006 inch slot schedule 40 poly vinyl chloride (PVC) screen threaded to 2 inch inside diameter schedule 40 PVC riser of varying lengths. The PVC riser for each of the wells extends approximately 3 feet above land surface. A 30/45 graded silica sand (filter pack) was placed approximately 2 feet above the screen sections followed by approximately one foot of bentonite (MW-22RA) or 30/65 sand (MW-22RB & C). The remaining annular space was filled with Portland Type I grout with approximately 3% bentonite to land surface. Placement of the filter pack and grout was accomplished using a tremie pipe. The vertical locations of the well screens for the replacement cluster are; A Zone 73-83 feet, B Zone 50-60 feet and C Zone 29-39 feet with respect to NGVD 1929.

A permanent marker was used to mark a location on the top of PVC well casing (TOC) for the wells as a reference point for depth to groundwater measurements. Surface completion for each well consists of a 6-inch diameter anodized aluminum protective casing with a lockable cover set in an approximate 5 ft by 13 ft concrete pad and protective retaining wall. The wells were fitted with a well cap, padlock, and an identification label.

Monitoring well cluster MW-22R (A, B and C) was developed by WSI personnel on March 15 and 16, 2012 using a combination of surge blocking and pumping to remove deleterious material and ensure proper filter pack settlement of the 30/45 grade silica sand to facilitate optimal filter function. Each groundwater monitoring well was developed using a submersible pump. The pump was set within the screened portion of the wells and allowed to run until the water was visually clear. The pump was then used to surge the well by raising and lowering the pump within the well screen. This process was repeated until the surging effort had little effect on the visual clarity of the groundwater. During the pumping phase of the development, groundwater samples were collected and turbidity levels were measured using a LaMotte 2020e meter. The volume of groundwater pumped during the development of the cluster was 147 gallons, 655 gallons and 916 gallons for the A, B and C zone wells, respectively. The final turbidity values were 19.6, 302 and 222 nephelometric turbidity units (NTUs), respectively. These results are consistent with previous results and like older monitoring wells, it is anticipated that current turbidity levels in the B and C Zone wells will improve with time.

JED Solid Waste Management Facility Monitoring Well Abandonment and Replacement April 26, 2012 Page 4 of 4



The horizontal and vertical location(s) of the monitoring well cluster MW-22R was surveyed by Peavey and Associates on April 4, 2012. A copy of Peavey and Associates figure is included in **Attachment IV**.

Closure

Should you have comments or questions regarding the information presented in this report, please contact Mr. Mike Kaiser at (904) 673-0446, <u>mkaiser@wsii.us</u> or the undersigned at (813) 418-2007.

Sincerely

nin

Robert Thompson Senior Geologist Florida P.G. #2560

Attachments

Copy: Mike Kaiser, WSI Kirk Wills, WSI Joe Terry, WSI

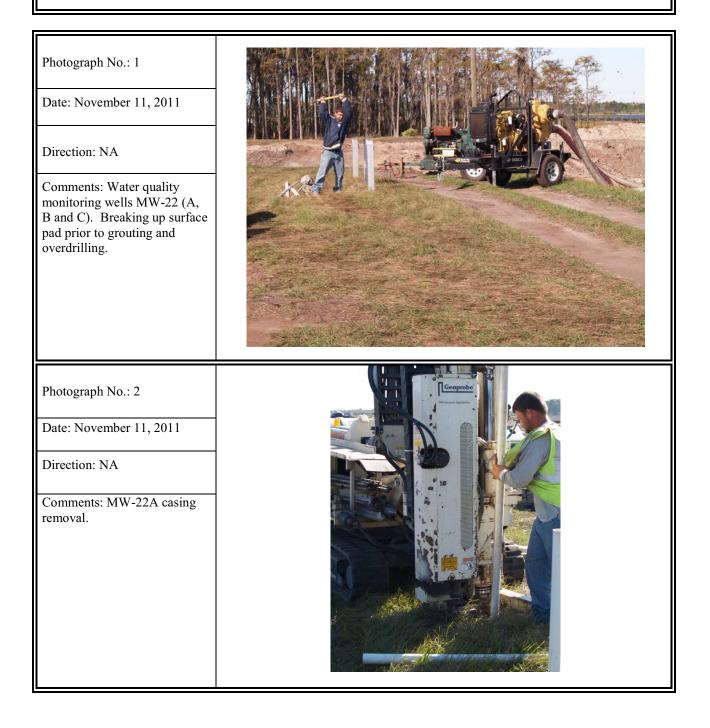
FIGURE



ATTACHMENT I PHOTOGRAPHS

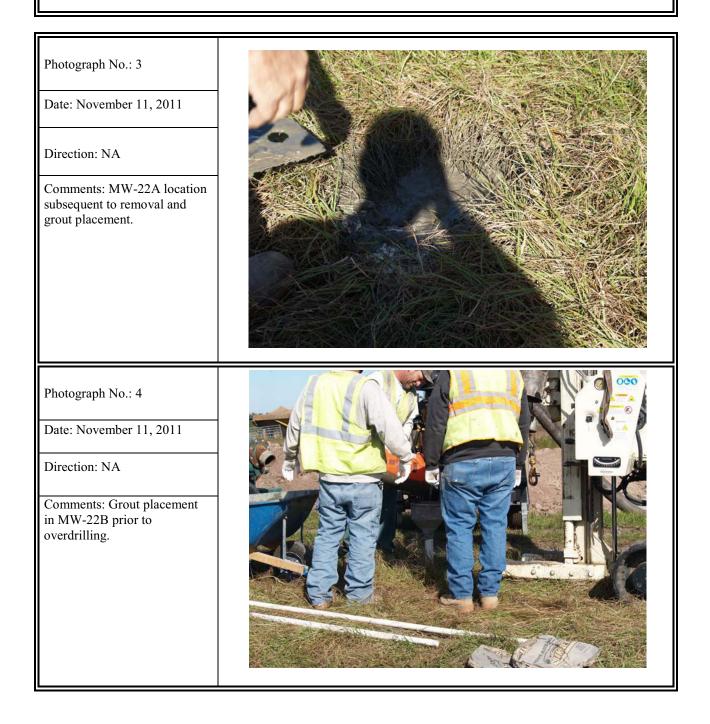
Client: Omni Waste of Osceola County, LLC

Project Name: JED Solid Waste Management Facility



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Project Name: JED Solid Waste Management Facility



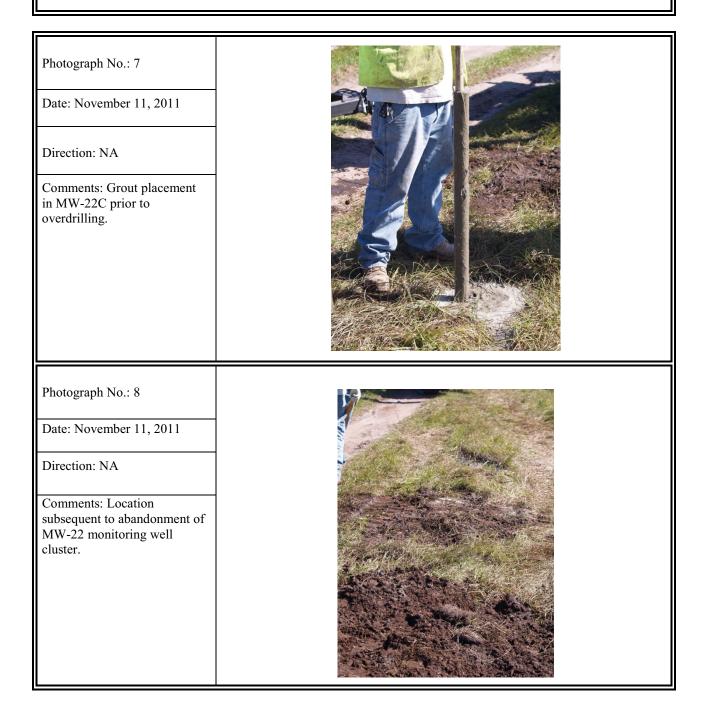
Client: Omni Waste of Osceola County, LLC

Project Name: JED Solid Waste Management Facility



Client: Omni Waste of Osceola County, LLC

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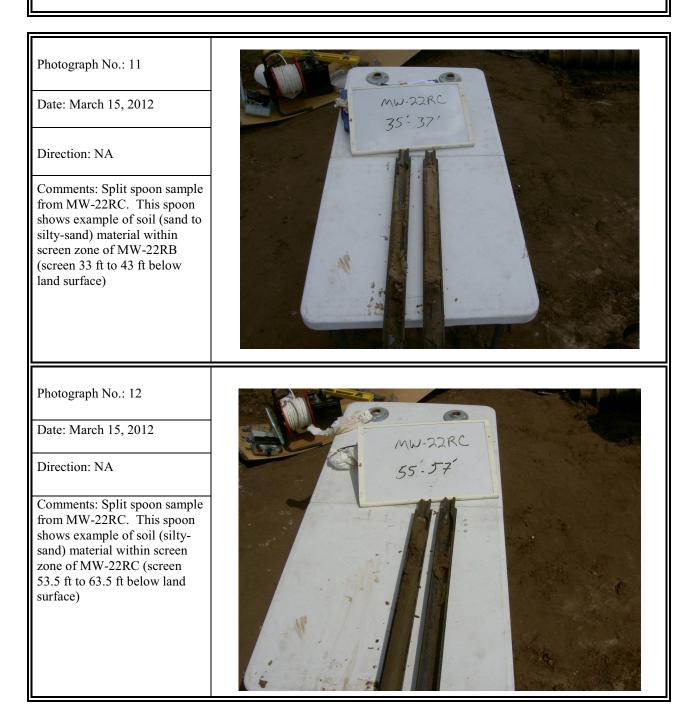
Client: Omni Waste of Osceola County, LLC

Project Name: JED Solid Waste Management Facility



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Client: Omni Waste of Osceola County, LLC

Project Name: JED Solid Waste Management Facility



Client: Omni Waste of Osceola County, LLC

Project Name: JED Solid Waste Management Facility

Project Location: 1501 Omni Way, St. Cloud, FL

Photograph No.: 15

Date: March 15, 2012

Direction: NA

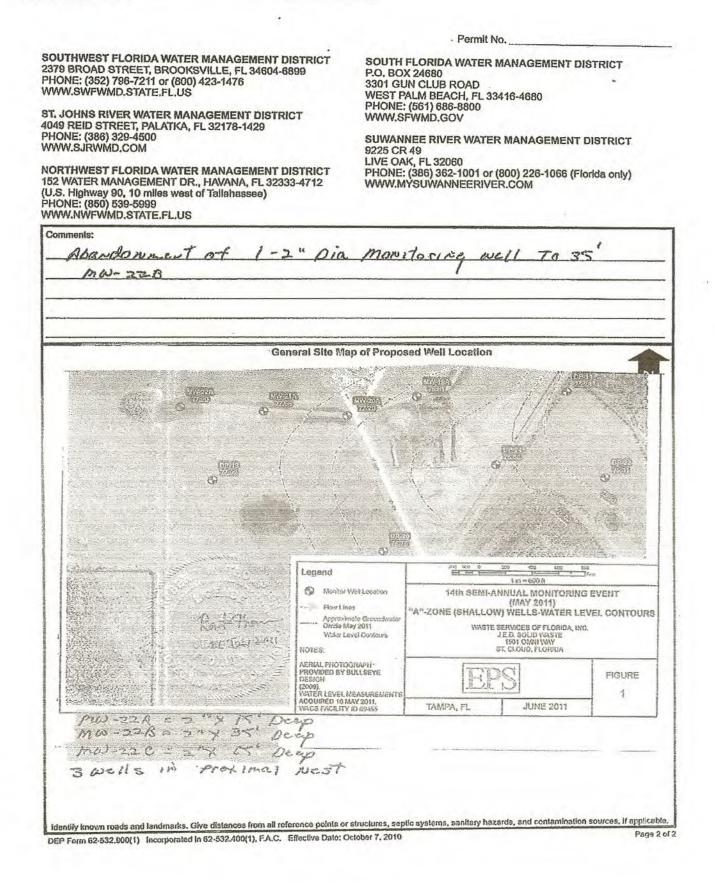
Comments: Surface completions are ~3 ft above grade with 6-inch diameter blue anodized aluminum protective casings. A 6-inch thick concrete pad and retaining wall will be placed around the wells.

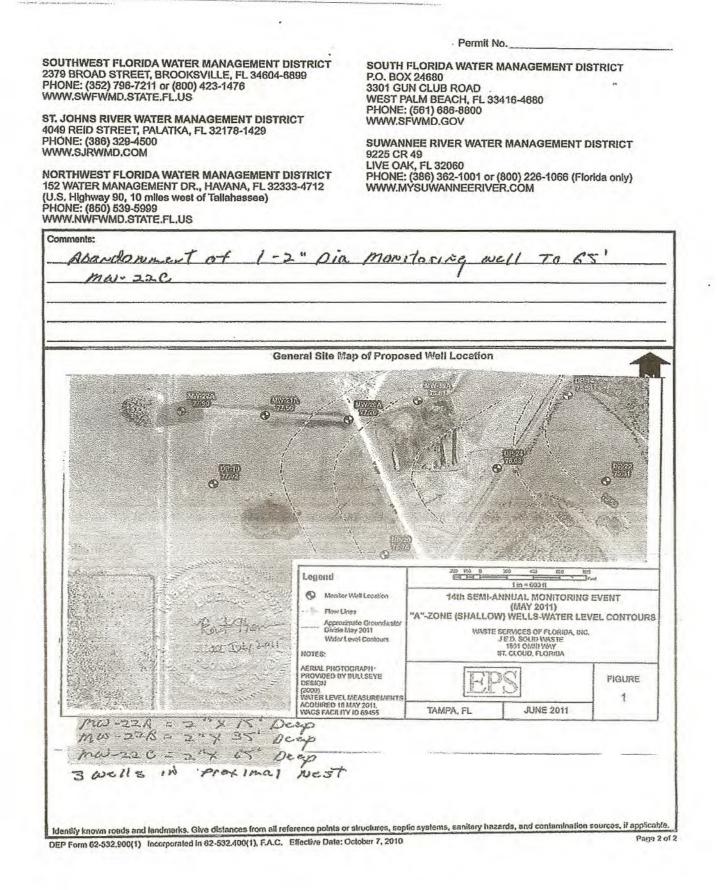


ATTACHMENT II PERMITS SPLIT SPOON DATA

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· Permit No. SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT SOUTH FLORIDA WATER MANAGEMENT DISTRICT 2379 BROAD STREET, BROOKSVILLE, FL 34604-6899 PHONE: (352) 796-7211 or (800) 423-1476 P.O. BOX 24680 3301 GUN CLUB ROAD WWW.SWFWMD.STATE.FL.US WEST PALM BEACH, FL 33416-4680 PHONE: (561) 686-8800 ST. JOHNS RIVER WATER MANAGEMENT DISTRICT WWW.SFWMD.GOV 4049 REID STREET, PALATKA, FL 32178-1429 PHONE: (386) 329-4500 SUWANNEE RIVER WATER MANAGEMENT DISTRICT WWW.SJRWMD.COM 9225 CR 49 LIVE OAK, FL 32060 NORTHWEST FLORIDA WATER MANAGEMENT DISTRICT 152 WATER MANAGEMENT DR., HAVANA, FL 32333-4712 PHONE: (386) 362-1001 or (800) 226-1066 (Florida only) WWW.MYSUWANNEERIVER.COM (U.S. Highway 90, 10 miles west of Tallahassee) PHONE: (850) 539-5999 WWW.NWFWMD.STATE.FL.US Comments: Abandonment of 1-2" Dia. MONITOFINE 70 Nell MW-22M General Site Map of Proposed Well Location 102 - ALLER TREMA L'ATONIN' 0 1997-50 0 Ð 8 0 (Distant) () ilous Lenend E1. P4 P--1 hs = 600 s ft Monitor Well Location 14th SEMI-ANNUAL MONITORING EVENT (MAY 2011) in Bas Flow Lines "A"-ZONE (SHALLOW) WELLS-WATER LEVEL CONTOURS Approximate Groundwater Divide May 2011 MASTE BERWICES OF FLORIDA, INC. J.E.D. SOLID WASTE 1531 OMNI WAY ST. CLOUD, FLORIDA Vilater Level Conicurs NOTES: 10 1/2 AERIAL PHOTOGRAPH PROVIDED BY BULLSEVE DESIGN 412 FIGURE 1 (2009) WATER LEVEL MEASUREMENTS 1 ACOURED 16 MAY 2011 WACS FACILITY ID 69455 TAMPA, FL JUNE 2011 Deep Miles -22. A -12 8 15 MW-22B 0 2 26 7 35 Deap they. ma -226 = 5. 6 Deep 3 wells in proximal Nest Identify known roads and landmarks. Give distances from all reference points or structures, septic systems, sentiary hazards, and contamination sources, if applicable. Page 2 of 2 DEP Form 02-532,900(1) Incorporated in 62-532,400(1), F.A.C. Effective Date: October 7, 2010







Osceola County Health Department 1 Courthouse Sq Kissimmee, FL 34741

PAYING ON:	PERMIT #: 49-WP-1378208 BILL DOC #:49-BIL	0-18532		
RECEIVED FROM:	Omni Waste	AMOUNT PAID:	\$ 50.00	
PAYMENT FORM:	CREDIT CARD 80419C Visa	PAYMENT DATE:	11/14/201	1
MAIL TO: Omni Was 3903 Bellain Houston, TX	e Blvd			
FACILITY NAME : 9	Omni Waste	April 14		200
PROPERTY LOCATIO	DN:			
1501 Omni Way Saint Cloud, FL 3				
Lot:	Block:	-		
Property ID:				
	EXPLANATION or DESCRIPTION:	QUANT	ITY	FEE
-1 - Well Abandonme	ent	1	\$	50.00
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RECEIVED BY: UleryCL

STATE OF FLORIDA WELL CO	DAte Stamp	-
□ Northwest (Denotes Re □ St. Johns River □ South Florida □ Suwannee River □ DEP	DUT ALL APPLICABLE FIELDS aquired Fields Where Applicab!e)	
Delegated Authority (If Applicable)	mw-22x Official Use Only	
1 Permit Number 37 52/35 CLIP/WLIP Number	DID Number 62-524 Delineation No	
	Number of permitted wells not constructed, repaired, or abandoned	
	ity isol omni way sticloud, FC 34773	
	d Grant Township 285 Range 32	
8. Latitude Longitude 9. Data Obtained From:GPSMapSurvey	Datum:NAD 27NAD 83WGS 84	
10. Type of Work:ConstructionRepairModification		
11. Specify Intended Use(s) of Well(s): DomesticLandscape Irrigation	Agricultural Irrigation Site Investigation	
Bottled Water Supply Recreation Area In	LIVESCOCK	
Public Water Supply (Limited Use/DOH) Public Water Supply (Community or Non-Community/DEP)	Commercial/Industrial Earth-Coupled Geothermal Golf Course Irrigation HVAC Supply	
Class I Injection	Gon Course ImgationHVAC Supply HVAC Return	
Class V Injection:Recharge Commercial/Industrial Disposa		
Remediation:RecoveryAir SpargeOther (Describe)		
Other (Describe)		
Horizontal DrillingHydraulic Point 13. Measured Static Water Levelft. Measured Pumping V 14. Measuring Point (Describe) Sufficient Sufficient Whice	Water Level N/R ft. After Hours at GPM chis O ft. Above Below Land Surface Flowing: Yes	No
15. Casing Material:Black SteelGalvanizedPVC		
	From M To ft. Screen: From To ft. Slot Size	-
Fromft. Toft. No. of Bags Seal Material Fromft. Toft. No. of Bags Seal Material Fromft. Toft. No. of Bags Seal Material	(Check One): Neat Cement Bentonite Other (Check One): Neat Cement Bentonite Other	
18. Surface Casing Diameter and Depth: Dia in. From ft. To ft. No. of Bags	Seal Material (Check One): Neat Cement Bentonite Other	
Diain. Fromft. Toft. No. of Bags	Seal Material (Check One): Neat Cement Bentonite Other	_
19. Primary Casing Diameter and Depth:	Real Material (Obash Osa) Neat Constant - Destanting Other	
Diain. Fromft. Toft. No. of Bags Diain. Fromft. Toft. No. of Bags	Seal Material (Check One):Neat CementBentoniteOther Seal Material (Check One):Neat CementBentoniteOther	
Diain. Fromft. Toft. No. of Bags Diain. Fromft. Toft. No. of Bags	Seal Material (Check One):Neat CementBentoniteOther Seal Material (Check One): Neat Cement Bentonite Other	
Diain. Fromft. Toft. No. of Bags	Seal Material (Check One): Neat Cement Bentonite Other	
20. Liner Casing Diameter and Depth:	Seel Metarial (Chaok Opo): Next Compart Pantonita Other	
Diain. Fromft. Toft. No. of Bags Diain. Fromft. Toft. No. of Bags	Seal Material (Check One):Neat CementBentoniteOther Seal Material (Check One): Neat Cement Bentonite Other	
Diain. Fromft. Toft. No. of Bags	Seal Material (Check One):Neat CementBentoniteOther	
21. Telescope Casing Diameter and Depth:		
Diain. Fromft. Toft. No. of Bags Diain. Fromft. Toft. No. of Bags	Seal Material (Check One): Neat Cement Bentonite Other Seal Material (Check One): Neat Cement Bentonite Other	
Diain. Fromft. Toft, No. of Bags	Seal Material (Check One): Neat Cement Bentonite Other	
22. Pump Type (If Known): NON E Centrifugal Jet Submersible Turbine	23. Chemical Analysis (When Required):	
Horsepower Pump Capacity (GPM)	Ironppm Sulfateppm Chlorideppr	m
Pump Depthft. Intake Depthft.	Laboratory TestField Test Kit	
24. Water Well Contractor:	Netross @	
Contractor Name <u>Ross Chymancler</u> License Number	er 11093 E-mail Address Tampabay, VI. Com Driller's Name (Print or Type) Greg Waxel	-
Contractor's Signature	e and true.) Driller's Name (Print or Type) Greg Waxel	_

SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT 2379 BROAD STREET, BROOKSVILLE, FL 34604-6899 PHONE: (352) 796-7211 or (800) 423-1476 WWW.SWFWMD.STATE.FL.US

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SUWANNEE RIVER WATER MANAGEMENT DISTRICT 9225 CR 49 LIVE OAK, FL 32060 PHONE: (386) 362-1001 or (800) 226-1066 (Florida only) WWW.MYSUWANNEERIVER.COM

From O	ft.	To 15	ft.	Color	Grain Size (F, M, C)	Material Abaudonmant
From	ft.	То	_ft.	Color	Grain Size (F, M, C)	Material
From	ft.	То	ft.	Color	Grain Size (F, M, C)	Material
From	ft.	To	ft.	Color	Grain Size (F, M, C)	Material
From	ft.	To	ft.	Color	Grain Size (F, M, C)	Material
From	ft.	To	ft.	Color	Grain Size (F, M, C)	Material
From	ft.	То	ft.	Color	Grain Size (F, M, C)	Material
From	ft.	To	ft.	Color	Grain Size (F, M, C)	Material
From	ft.	То	ft.	Color	Grain Size (F, M, C)	Material
From	ft.	To	ft.	Color	Grain Size (F, M, C)	Material
From	ft.	To	ft.	Color	Grain Size (F, M, C)	Material
From	ft.	То	ft.	Color	Grain Size (F, M, C)	Material
From	ft.	To	ft.	Color	Grain Size (F, M, C)	Material
From	ft.	То	ft.	Color	Grain Size (F, M, C)	Material
From	ft.	To	ft.	Color	Grain Size (F, M, C)	Material
From	ft.	То	ft.	Color	Grain Size (F, M, C)	Material
From	ft.	То	ft.	Color	Grain Size (F, M, C)	Material
From	ft.	To	ft.	Color	Grain Size (F, M, C)	Material
From	ft.	То	ft.	Color	Grain Size (F, M, C)	Material
From	ft.	То	ft.	Color	Grain Size (F, M, C)	Material
From	ft.	То	ft.	Color	Grain Size (F, M, C)	Material
From	ft.	To	ft.	Color	Grain Size (F, M, C)	Material
From	ft.	То	ft.	Color	Grain Size (F, M, C)	Material
From	ft.	То	ft.	Color	Grain Size (F, M, C)	Material
From	ft.	To	ft.	Color	Grain Size (F, M, C)	Material
From	ft.	То	ft.	Color	Grain Size (F, M, C)	Material



	STATE OF FLO	RIDA WELL C	OMPLETIO	N REPORT	2		Date Stamp
	□ Southwest □ Northwest □ St. Johns River □ South Florida □ Suwannee River □ DEP	(Denotes R	OUT ALL APPLICA Required Fields V	/here Applicab!e			
	Delegated Authorit	y (If Applicable)		/	mw-228	C	Official Use Only
	78208 CUP/W						
3. Owner's Name	Ni waste of Ose	sole Canto, L	4. Compl	tion Date 11-1	1-234 5. Florid	da Unique ID _	
6. JEO Sal	ess, Road Name or Num	pesal Facil	1. ty 150	1 Omai	way St. C	loool, Fe	2 34773
7. County OSCe	<u>o(a</u> s	ection <u>//</u> La	nd Grant		Towns	ship 285	Range 32E
8. Latitude	GPS Map	Longitude					
and the second se	Construction Rep	sectors and a sector of the se	the second se	the second s	IAD 27N	AD 83	WGS 84
Public Water Supp Class I Injection Class V Injection:	pply bly (Limited Use/DOH) bly (Community or Non-Co Recharge Commen	cial/Industrial Dispos	Irrigation	Golf Course	gation al/Industrial e Irrigation	HVAC Supply HVAC Return	d Geothermal
Other (Describe)	coveryAir Sparge	Other (Describe					
 Measured Static Wa 14. Measuring Point (De 15. Casing Material: 16. Total Well Depth 3 	AugerCable To Horizontal Drilling ater Levelft. escribe)CaceCaceG Black SteelG ft. Cased Depth	Hydraulic Po Measured Pumping	bint (Direct Push Water Level _/ ich isft /CStainle	Other ft. Af Above ess Steel	HOLANDONS fter HOL Below Land Surfa Not Cased	present present ce Flowing: Other	Sonic GPM YesNo Slot Size
From ft. To From ft. To From ft. To From ft. To From ft. To From ft. To	ft. No. of Bags ft. No. of Bags	Seal Materia Seal Materia Seal Materia	al (Check One):_ al (Check One):_ al (Check One):_ al (Check One):_ al (Check One):_ al (Check One):_	Neat Cem Neat Cem Neat Cem	entBenton entBenton entBenton	ite Othe ite Othe ite Othe	r r
18. Surface Casing Dia Diain. From Diain. From	n <u>ft.</u> To <u>ft</u> .	No. of Bags No. of Bags	Seal Material Seal Material		Neat Cement _Neat Cement	Bentonite Bentonite	_Other
19. Primary Casing Dia Diain. Fror Diain. Fror Diain. Fror Diain. Fror Diain. Fror	nft. Toft. nft. Toft. nft. Toft. nft. Toft.	No. of Bags No. of Bags No. of Bags No. of Bags No. of Bags	Seal Material Seal Material Seal Material Seal Material Seal Material	Check One): Check One): Check One):	Neat Cement Neat Cement Neat Cement Neat Cement Neat Cement	Bentonite Bentonite Bentonite Bentonite Bentonite	Other Other Other Other Other
20. Liner Casing Diame Diain. From Diain. From Diain. From	nft. Toft. nft. Toft.	No. of Bags No. of Bags No. of Bags	Seal Material Seal Material Seal Material		Neat Cement Neat Cement Neat Cement	Bentonite Bentonite Bentonite	Other Other Other
21. Telescope Casing I Diain. From Diain. From Diain. From	n ft. To ft. n ft. To ft.	No. of Bags No. of Bags No. of Bags	Seal Material Seal Material Seal Material	(Check One):	Neat Cement Neat Cement Neat Cement	Bentonite Bentonite Bentonite	Other Other Other
	JetSubmers Pump Capacity (GP tIntake Depth stor: 	M) ft.	Iron	ppm S	Sulfatep		
Contractor's Signature	I certify that the information prov	vided in this report is accura	te and true.)	a a rodine (Fuilt	or type) OTTE	7 0048	

SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT 2379 BROAD STREET, BROOKSVILLE, FL 34604-6899 PHONE: (352) 796-7211 or (800) 423-1476 WWW.SWFWMD.STATE.FL.US

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From B	ft.	To 35	ft.	Color	Grain Size (F, M, C)	Material Abgadownew T
From	ft.	То	ft.	Color	Grain Size (F, M, C)	Material
From	ft.	То	ft.	Color		
From	ft.	То	ft.	Color		
From	ft.	То	ft.	Color	Grain Size (F, M, C)	Material
From	ft.	То	ft.	Color	Orain Cine (E M. C)	Material
From	ft.	То	ft.	Color	Grain Size (F, M, C)	Material
From	ft.	То	ft.	Color	Contra Cine (F MA C)	Material
From	ft.	То	ft.	Color	Grain Size (F, M, C)	Material
From	ft.	То	ft.	Color	0	Material
From	ft.	То	ft.	Color	Grain Size (F, M, C)	Material
From	ft.	То	ft.	Color		Material
From	ft.	То	ft.	Color	Grain Size (F, M, C)	
From	ft.	То	ft.	Color	Grain Size (F, M, C)	Material
From	ft.	To	ft.	Color	Grain Size (F, M, C)	Material
From	ft.	To	ft.	Color	Grain Size (F, M, C)	Material
From	ft.	To	ft.	Color	Grain Size (F, M, C)	Material
From	ft.	То	ft.	Color	Grain Size (F, M, C)	Material
From	ft.	To	ft.	Color	Grain Size (F, M, C)	Material
From	ft.	То	ft.	Color	Grain Size (F, M, C)	Material
From	ft.	To	ft.	Color	Grain Size (F, M, C)	Material
From	ft.	To	ft.	Color	Grain Size (F, M, C)	Material
From	ft.	To	ft.	Color	Grain Size (F, M, C)	Material
From	ft.	То	ft.	Color	Grain Size (F, M, C)	Material
From	ft.	То	ft.	Color	Grain Size (F, M, C)	Material
From	ft.	То	ft.	Color	Grain Size (F, M, C)	Material

•	Legend Maritar Well Location	20 100 g	000 000 000 000 000 000 000 000 000 00		1
	Legend Monitor Well Location	20 100 g	00 00 00 00	194	
	Monitor Well Location		1 in = 600 ft	ret .	
		14th SEMLA			
Rod Thomas - 201	Flow Lines Approximate Groundwater Divide May 2011 Water Level Conteurs NOTES:	"A"-ZONE (SHALLOV WASTE	NNUAL MONITORING (MAY 2011) N) WELLS-WATER LEV SERVICES OF FLORIDA, INC. J.E.D. SOLID VASTE 1501 ONN WAY ST. CLOUD, FLORIDA	and a start of the	
Res Cont	AERIAL PHOTOGRAPH PROVIDED BY BULLSEYE DESIGN (2009) WATER LEVEL MEASUREMENTS ACQUIRED 16 MAY 2011. WACS FACILITY ID 89455	TAMPA, FL	JUNE 2011	FIGURE 1	
A	cep				
	/				
	8 = 2" x 35' De	PROVIDED BY BULLSEYE DESIGN WATER LEVEL MEASUREMENTS ACQUIRED 16 MAY 2011 WACS FACILITY ID 89455 WACS FACILITY ID 89455 B = 2 * Y 35 Deep B = 2 * Y 35 Deep	PROVIDED BY BULLSEYE DESIGN WATER LEVEL MEASUREMENTS ACQUIRED 16 MAY 2011 WACS FACULTY ID B9455 TAMPA, FL BC 2 Y 3 ST Deep B 2 2 Y 3 ST Deep B 2 2 Y 3 ST Deep	PROVIDED BY BULLSEYE DESIGN WATER LEVEL MEASUREMENTS ACQUIRED 16 MAY 2011 WACS FACULTY ID 89455 TAMPA, FL JUNE 2011 BE 2 M 3 ST Deep Be 2 M 3 ST Deep Be 2 M 3 ST Deep	PROVIDED BY BULLSEYE DESIGN WATER LEVEL MEASUREMENTS ACQUIRED 16 MAY 2011 WATER LEVEL MEASUREMENTS ACQUIRED 16 MAY 2011 TAMPA, FL JUNE 2011 TAMPA, FL JUNE 2011

	STATE OF FLOR	IDA WELL C	OMPLETIO	N REPORT	Ł		Date Stamp
	□Southwest □Northwest □St. Johns River □South Florida □Suwannee River □DEP	(Denotes F	OUT ALL APPLICA Required Fields V	/here Applicable			
	Delegated Authority (If Applicable)			nw-22C	Of	ficial Use Only
1. Permit Number (3	78208 CUP/WUP	Number	C	ID Number	62-5	24 Delineation I	No.
	wells constructed, repaired						
	Ni Waste of Osao						
	al Waste Dispess, Road Name or Number						
	2(a Seci						
8. Latitude		Longitude					
		Survey			IAD 27NA	D 83	NGS 84
	ConstructionRepair	Modificatio	Abando	nment			
 Specify Intended Us Domestic 		Landscape Irriga	tion	Agricultural		Site Investigati	on
Bottled Water Sup	ply	Recreation Area	Irrigation	Livestock Nursery Irri		Monitoring Test	
	oly (Limited Use/DOH) oly (Community or Non-Com	munity/DEP)		Commercia	I/Industrial	Earth-Coupled	Geothermal
Class I Injection	by (Community of Non-Com	munity/DEP)		Golf Course		HVAC Supply HVAC Return	
	Recharge Commercia	I/Industrial Dispos	salAquifer S	Storage and Rec	overyDrainag	le	
	overyAir Sparge	Other (Describe	e)				
Other (Describe)							
	_AugerCable Tool Horizontal Drilling ater Level & ft. M	Hydraulic P	oint (Direct Push	Other	ALGNOON	ment	_Sonic GPM
14. Measuring Point (De	scribe) <u>Ground Scrift</u>	feec Wh	ichis O ft.	Above	Selow Land Surfac	e Flowing:	YesNo
	Black SteelGalv		4				
	5_ft. Cased Depth	_ft. Open Hole	: From PA To	ft. Scr	reen: From	Toft. S	Slot Size
	Other (Explain)	Seal Materia	al (Check One):	Neat Cem	ent Bentoni	te Other	
From ft. To	ft. No. of Bags	Seal Materia	al (Check One):	Neat Cem	entBentoni	teOther	
From ft. To From ft. To	ft. No. of Bags ft. No. of Bags		al (Check One):_ al (Check One):				
	ft. No. of Bags		al (Check One):				
18. Surface Casing Dia							-
Diain. From Dia in. From		o. of Bags o. of Bags	Seal Material Seal Material		Neat Cement Neat Cement	Bentonite Bentonite	Other Other
19. Primary Casing Dia				(
Diain. From	n <u>ft. To</u> ft. N	o. of Bags	Seal Material		Neat Cement	Bentonite	Other
Diain. From Diain. From		lo. of Bags lo. of Bags	Seal Material Seal Material	(Check One):	Neat Cement Neat Cement	Bentonite Bentonite	_Other Other
Diain. From	n ft. To ft. N	o. of Bags	Seal Material Seal Material	(Check One):	Neat Cement Neat Cement	Bentonite Bentonite	Other Other
Diain. From	A Part of the second	lo. of Bags	_ Sear Material	(Check One)	_Near Gement	Dentonite	
20. Liner Casing Diame Diain. From	nft. Toft. N	lo. of Bags	Seal Material	(Check One):	Neat Cement	Bentonite	Other
Diain. From		lo. of Bags		(Check One):	Neat Cement Neat Cement	Bentonite Bentonite	_Other
Diain. From		lo. of Bags	_ Ocal material	(Check One):	_noar oement	Dentonite	
21. Telescope Casing Dia in. From		lo. of Bags	Seal Material	(Check One):	Neat Cement	Bentonite	Other
Dia in. From	nft. Toft. N	lo. of Bags	Seal Material	(Check One):	Neat Cement	Bentonite	Other
Diain. Fron		lo. of Bags		(Check One):	Neat Cement	Bentonite	_Other
22. Pump Type (If Know Centrifugal	vn): NONE Jet Submersible	e Turbine		nical Analysis (M		om Chloride	maa
Horsepower	Pump Capacity (GPM)		Iron	ppm S	Sulfatep	on chionde	ppm
Pump Depthft				Laboratory Test	Field	Test Kit	
24. Water Well Contract	tor:				ale to	9226	
Contractor Name	oss Chinarder	License Num	ber 11093	E-mail Ad	Idress Janpa	bay. Kr.	com
Contractor's Signature	I certify that the information provide	d in this report is accurate	Drill	er's Name (Print	ddress Jan-par or Type) <u>Gre</u>	g wax	el
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~						and the second se	D

SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT 2379 BROAD STREET, BROOKSVILLE, FL 34604-6899 PHONE: (352) 796-7211 or (800) 423-1476 WWW.SWFWMD.STATE.FL.US

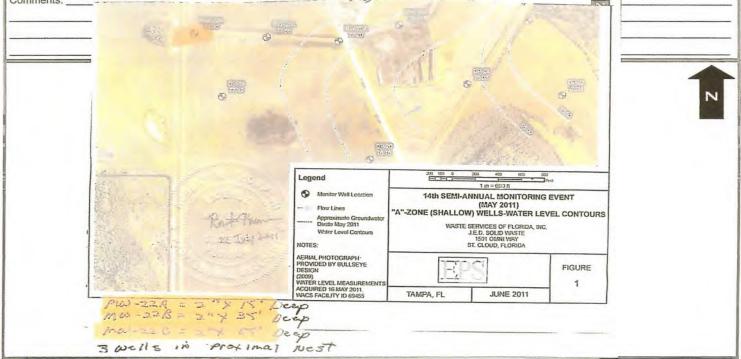
ST. JOHNS RIVER WATER MANAGEMENT DISTRICT 4049 REID STREET, PALATKA, FL 32178-1429 PHONE: (386) 329-4500 WWW.SJRWMD.COM

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	ft.	TO 65	ft.	Color	Grain Size (F, M, C)	
From		То	ft.	Color		
From		То	ft.	Color		
From	ft.	To	ft.	Color	Grain Size (F, M, C)	
From	ft.	To	ft.	Color	Grain Size (F, M, C)	
From	ft.	To	ft.	Color		Material
From	ft.	To	ft.	Color	Grain Size (F, M, C)	Material
From	ft.	To	ft.	Color		Material
From	ft.	То	ft.	Color	Grain Size (F, M, C)	
From	ft.	To	ft.	Color	Grain Size (F, M, C)	Material
From	ft.	То	ft.	Color	Grain Size (F, M, C)	Material
From	ft.	То	ft.	Color	Grain Size (F, M, C)	Material
From	ft.	То	ft.	Color		Material
From	ft."	То	ft.	Color	Grain Size (F, M, C)	Material
From	ft.	То	ft.	Color	Grain Size (F, M, C)	Material
From	ft.	То	ft.	Color	Grain Size (F, M, C)	Material
From	ft.	То	ft.	Color	Grain Size (F, M, C)	Material
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From	ft.	То	ft.	Color	Grain Size (F, M, C)	Material
From	ft.	То	ft.	Color	Grain Size (F, M, C)	Material
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From	ft.	То	ft.	Color	Grain Size (F, M, C)	Material
From	ft.	То	ft.	Color	Grain Size (F, M, C)	Material
From	ft.	То	ft.	Color	Grain Size (F, M, C)	
From	ft.	То	ft.	Color	Grain Size (F, M, C)	Material



			DI ETION REPORT	2	Date Stamp
	STATE OF FLO		PLETION REPORT		
e ///	□Southwest □Northwest □St. Johns River	PLEASE, FILL OUT A ( Denotes Requir	ALL APPLICABLE FIELDS red Fields Where Applicable)	15	
	□South Florida □Suwannee River				
-3P		h. (If Applicable)		MU-77 RA	Official Use Only
	the second se	and the second division of the second divisio	/		
	4187 CUP/W	/UP Number	DID Number	62-524 Del	neation No.
	wells constructed renait	red or abandoned	Number of permitted well	s not constructed, repair	
Or	not waste	LI.C.	4. Completion Date 3-1	6-201- Florida Unic	lue ID
JED Solid	ess. Road Name or Num	iber, City, ZIP	Ty 1501 0 mm	1 Way, Stol	BUM TE STA
County Osce	ola	Section 11 Land G	Grant	Township 2	85 Range <u>32E</u>
_atitude		_ Longitude	Datum: N	IAD 27NAD 83	WGS 84
Data Obtained From	GPSMap	pSurvey epairModification	Construction of the second sec		
Type of Work: Specify Intended U:	se(s) of Well(s):		AORCHITTER	IrrigationSite	Investigation
Domestic	-	Landscape Irrigation Recreation Area Irrig	ation Nursery Irri	gationTest	
Bottled Water Su Public Water Sup	mly (Limited Use/DOH)		Commercia	al/IndustrialEarth	1-Coupled Geothermal C Supply
Public Water Sup	oply (Community or Non-			HVA	C Return
Class I Injection	Recharge Comm	ercial/Industrial Disposal	Aquifer Storage and Rec	coveryDrainage	
emediation:Re	ecoveryAir Sparge	O(ner (Describe)			
Other (Describe)		Zeal Rotany	Combination (Two or Mor t (Direct Push)Other	e Methods)Jett	edSonic
. Measured Static V	Vater Level fi	t. Measured Pumping W	ater Level	Below Land Surface	Flowing: Yes
. Measuring Point (D	Black Steel	Galvanized PVC	Stainless Steel	Not CasedOthe	r ft. Slot Size
5. Total Well Depth _	ft. Cased Deplin	ft. Open Hole: F	romToft. S	creen: FromTo	1. SIOL SIZE
	Other (Explain)			nent Bentonite	Other
Fromft. To	oft. No. of Bags	Seal Material (	Check One):Neat Cer	mentBentonite	Other Other
	oft. No. of Bags	s Seal Material (	(Check One): Neat Ce	mentBentonite	Other
Fromft. T Fromft. T	foft. No. of Baus foft. No. of Baus		(Check One):Neat Ce	mentBentonite	Other
8. Surface Casing D	Diameter and Depth: romftTo	ft. No. of Bags	Seal Material (Check One):_ Seal Material (Check One):_		entoniteOther entoniteOther
	romft. To Diameter and Depth:	ft. No. of Bags		Neat CementB	entoniteOther
Dia 🛫 in. Fr	rom 0 11. 10 10	ft. No. of Bags	Seal Material (Check One): Seal Material (Check One):	Neat CementB	entonite Other
Dia in. Fi Dia in. Fi	romft. To	ft. No. of Bags	o Motorial (Chack ()08)"		entonite Other
			Seal Material (Check One): Seal Material (Check One):	Neat CementE	entonite Other
Di-	romft. To	ft. No. of Bags ft. No. of Bags	Seal Material (Check One): Seal Material (Check One): Seal Material (Check One):	Neat CementE	
Dia in. F	romft. To romft. To	ft, No. of Bags	Seal Material (Check One): Seal Material (Check One): Seal Material (Check One):	Neat Cement E	entonite Other entonite Other
Dia in. F Screen 20. Liner Casing Dia Diain. F	romftTo romftTo ameter and Depth: romftTo?	ft. No. of Bags ft. No. of Bags ft. No. of Bags	Seal Material (Check One): Seal Material (Check One): Seal Material (Check One): Seal Material (Check One):	Neat Cement E Neat Cement E Neat Cement E Neat Cement E	entoniteOther entoniteOther
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CD Form 62-532,900(2)	Incorporated in 62-532.410, F.A.C.	Ciliboot + = +++

Permit No. 4966 1394157

SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT 2379 BROAD STREET, BROOKSVILLE, FL 34604-6899 PHONE: (352) 796-7211 or (800) 423-1476 WWW.SWFWMD.STATE.FL.US

ST. JOHNS RIVER WATER MANAGEMENT DISTRICT

4049 REID STREET, PALATKA, FL 32178-1429 PHONE: (386) 329-4500 WWW.SJRWMD.COM

NORTHWEST FLORIDA WATER MANAGEMENT DISTRICT 152 WATER MANAGEMENT DR., HAVANA, FL 32333-4712 (U.S. Highway 90, 10 miles west of Tallahassee) PHONE: (850) 539-5999 . . . .

SOUTH FLORIDA WATER MANAGEMENT DISTRICT P.O. BOX 24680 3301 GUN CLUB ROAD WEST PALM BEACH, FL 33416-4680 PHONE: (561) 686-8800 WWW.SFWMD.GOV

SUWANNEE RIVER WATER MANAGEMENT DISTRICT 9225 CR 49 LIVE OAK, FL 32060 PHONE: (386) 362-1001 or (800) 226-1066 (Florida only) WWW.MYSUWANNEERIVER.COM

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DEP Form 62-532.900(2) Incorporated in 62-532.410, F.A.C. Effective Date: Oclobe

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	STATE OF FLORIDA	WELL COMP	LETION REPO	)KI		
5			ADDI ICABLE FIELDS			
	]Southwest ]Northwest	( Denotes Required	Fields Where Appli	cable)		
1 1 1	3St. Johns River					
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	]Suwannee River					official Use Only
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10 6	JP				62-524 Delineation	No
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child reamberg of possibled w	CUP/WUP Nu ells constructed, repaired, or	abandoned _1	Number of permitt	ed wells not constru	Joleu, repaired, or e	
Wher's Name Osco	Blis constructed, repaired, or i i a sto of ola County, L Waste Dissos Road Name or Number, C		IFAT A	mai man	, st. Cloud	LFL 34773
	Lucate Dispas	al Facilit	y 15010	1		
Vell Location - Address	s, Road Name or Number, C	aty, Zir			Township 285	Range 32E
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	Lc	ngitude			NAD 83	WGS 84
_atitude	CDS IN	Survey	Datum:	NAD 27	NAD 05	
Data Obtained From:	Construction Repair	Modification	Abandonment	-	Site Investig	nation
Type of Work: Specify Intended Use	(s) of Well(s):	- Internetion	Agr	icultural Irrigation estock	Vionitoring	Janon
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DEP Form 62-532.900(2) Incorporated in 62-532.410, F.A.C. Effective Date: October 7, 2010

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Permit No. 4910 1394187

SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT 2379 BROAD STREET, BROOKSVILLE, FL 34604-6899 PHONE: (352) 796-7211 or (800) 423-1476 WWW.SWFWMD.STATE.FL.US

### ST. JOHNS RIVER WATER MANAGEMENT DISTRICT

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### NORTHWEST FLORIDA WATER MANAGEMENT DISTRICT

152 WATER MANAGEMENT DR., HAVANA, FL 32333-4712 (U.S. Highway 90, 10 miles west of Tallahassee) PHONE: (850) 539-5999 - .....

SOUTH FLORIDA WATER MANAGEMENT DISTRICT P.O. BOX 24680 3301 GUN CLUB ROAD WEST PALM BEACH, FL 33416-4680 PHONE: (561) 686-8800 WWW.SFWMD.GOV

#### SUWANNEE RIVER WATER MANAGEMENT DISTRICT 9225 CR 49 LIVE OAK, FL 32060

PHONE: (386) 362-1001 or (800) 226-1066 (Florida only) WWW.MYSUWANNEERIVER.COM

romft       Toft       ColorGrain Size (F, M, C)Material			15		changes Note cavities and depth	to producing zone. Grain Size: F=Fine,	
Endeduni, and C. Constal, S. R. Color, <u>Dark Kateral</u> . Grain Stef (19.4, 6). <u>Prove</u> Material. Grain Stef (19.4, 6). <u>Prove</u> Material. <u>Material.</u> <u>Material.</u> <u>Material.</u> <u>Material.</u> <u>Material.</u> <u>Material.</u> <u>Material.</u> <u>Material.</u> <u>Material.</u> <u>Material.</u> <u>Material.</u> <u>Material.</u> <u>Material.</u> <u>Material.</u> <u>Material.</u> <u>Material.</u> <u>Material.</u> <u>Material.</u> <u>Material.</u> <u>Material.</u> <u>Material.</u> <u>Material.</u> <u>Material.</u> <u>Material.</u> <u>Material.</u> <u>Material.</u> <u>Material.</u> <u>Material.</u> <u>Material.</u> <u>Material.</u> <u>Material.</u> <u>Material.</u> <u>Material.</u> <u>Material.</u> <u>Material.</u> <u>Material.</u> <u>Material.</u> <u>Material.</u> <u>Material.</u> <u>Material.</u> <u>Material.</u> <u>Material.</u> <u>Material.</u> <u>Material.</u> <u>Material.</u> <u>Material.</u> <u>Material.</u> <u>Material.</u> <u>Material.</u> <u>Material.</u> <u>Material.</u> <u>Material.</u> <u>Material.</u> <u>Material.</u> <u>Material.</u> <u>Material.</u> <u>Material.</u> <u>Material.</u> <u>Material.</u> <u>Material.</u> <u>Material.</u> <u>Material.</u> <u>Material.</u> <u>Material.</u> <u>Material.</u> <u>Material.</u> <u>Material.</u> <u>Material.</u> <u>Material.</u> <u>Material.</u> <u>Material.</u> <u>Material.</u> <u>Material.</u> <u>Material.</u> <u>Material.</u> <u>Material.</u> <u>Material.</u> <u>Material.</u> <u>Material.</u> <u>Material.</u> <u>Material.</u> <u>Material.</u> <u>Material.</u> <u>Material.</u> <u>Material.</u> <u>Material.</u> <u>Material.</u> <u>Material.</u> <u>Material.</u> <u>Material.</u> <u>Material.</u> <u>Material.</u> <u>Material.</u> <u>Material.</u> <u>Material.</u> <u>Material.</u> <u>Material.</u> <u>Material.</u> <u>Material.</u> <u>Material.</u> <u>Material.</u> <u>Material.</u> <u>Material.</u> <u>Material.</u> <u>Material.</u> <u>Material.</u> <u>Material.</u> <u>Material.</u> <u>Material.</u> <u>Material.</u> <u>Material.</u> <u>Material.</u> <u>Material.</u> <u>Material.</u> <u>Material.</u> <u>Material.</u> <u>Material.</u> <u>Material.</u> <u>Material.</u> <u>Material.</u> <u>Material.</u> <u>Material.</u> <u>Material.</u> <u>Material.</u> <u>Material.</u> <u>Material.</u> <u>Material.</u> <u>Material.</u> <u>Material.</u> <u>Material.</u> <u>Material.</u> <u>Material.</u> <u>Material.</u> <u>Material.</u> <u>Material.</u> <u>Material.</u> <u>Material.</u> <u>Material.</u> <u>Material.</u> <u>Material.</u> <u>Material.</u> <u>Material.</u> <u>Material.</u> <u>Material.</u> <u>Material.</u> <u>Material.</u> <u>Materia</u>	DRILL CUTTIN	IGS LOG (Examin	ne cutting	is every 20 ft. or at formation	changes. Note control and sept	So al	
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tom       t.       too       t.       Color       Grain Size (F, M, C)       Material         tom       t.       too       t.       Color       Grain Size (F, M, C)       Material         tom       t.       too       t.       Color       Grain Size (F, M, C)       Material         tom       t.       too       t.       Color       Grain Size (F, M, C)       Material         tom       t.       too       t.       Color       Grain Size (F, M, C)       Material         tom       t.       too       n.       Color       Grain Size (F, M, C)       Material         tom       t.       too       n.       Color       Grain Size (F, M, C)       Material         tom       t.       too       n.       Color       Grain Size (F, M, C)       Material         tom       t.       too       n.       Color       Grain Size (F, M, C)       Material         tom       t.       too       n.       Color       Grain Size (F, M, C)       Material         tom       t.       too       n.       Color       Grain Size (F, M, C)       Material         tom       t.       too       n.       Color       Grain	From				Grain Size (F, M, C)		
mm       f. not       Color	From				Grain Size (F, W, C)		
com       tr       too       too       color       Grain Size (F. M. C)       Material         com       tr       too       th       Color       Grain Size (F. M. C)       Material         com       tr       too       th       Color       Grain Size (F. M. C)       Material         com       tr       too       th       Color       Grain Size (F. M. C)       Material         com       th       too       th       Color       Grain Size (F. M. C)       Material         com       th       too       th       Color       Grain Size (F. M. C)       Material         com       th       too       th       Color       Grain Size (F. M. C)       Material         com       th       too       th       Color       Grain Size (F. M. C)       Material         com       th       too       th       Color       Grain Size (F. M. C)       Material         com       th       too       th       Color       Grain Size (F. M. C)       Material         com       th       too       too       too       too       Material         com       th       too       too       too       too       too </td <td>From</td> <td></td> <td></td> <td></td> <td>Grain Size (F, M, C)</td> <td></td> <td></td>	From				Grain Size (F, M, C)		
Tom       ft       fo       th       Color       Grain Size (F, M, C)       Materia         Tom       ft       fo       ft       Color       Grain Size (F, M, C)       Materia         Tom       ft       fo       ft       Color       Grain Size (F, M, C)       Materia         Tom       ft       fo       ft       Color       Grain Size (F, M, C)       Materia         Tom       ft       fo       ft       Color       Grain Size (F, M, C)       Materia         Tom       ft       fo       ft       Color       Grain Size (F, M, C)       Materia         Form       ft       fo       ft       Color       Grain Size (F, M, C)       Materia         From       ft       ft       Color       Grain Size (F, M, C)       Materia         From       ft       ft       color       Grain Size (F, M, C)       Materia         From       ft       ft       color       Grain Size (F, M, C)       Materia         From       ft       ft       color       Grain Size (F, M, C)       Materia         From       ft       ft       color       Grain Size (F, M, C)       Materia         From       ft       <					Grain Size (F, M, C)		
Tom       ft       10       ft       Color       Grain Size (F, M, C)       Materia         Tom       ft       10       ft       Color       Grain Size (F, M, C)       Materia         Tom       ft       10       ft       Color       Grain Size (F, M, C)       Materia         Tom       ft       10       ft       Color       Grain Size (F, M, C)       Materia         Form       ft       ft       Color       Grain Size (F, M, C)       Materia         Form       ft       ft       Color       Grain Size (F, M, C)       Materia         Form       ft       ft       Color       Grain Size (F, M, C)       Materia         Form       ft       ft       Color       Grain Size (F, M, C)       Materia         From       ft       ft       Color       Grain Size (F, M, C)       Materia         From       ft       ft       ft       Color       Grain Size (F, M, C)       Materia         From       ft       ft       Color       Grain Size (F, M, C)       Materia       Materia         From       ft       ft       Color       Grain Size (F, M, C)       Materia       Materia         From       ft<				Color	Grain Size (F, M, C)	Material	
Tom       ft       10       ft       Color       Grain Size (F, M, C)       Materia         Tom       ft       10       ft       Color       Grain Size (F, M, C)       Materia         Tom       ft       10       ft       Color       Grain Size (F, M, C)       Materia         Tom       ft       10       ft       Color       Grain Size (F, M, C)       Materia         Tom       ft       ft       Color       Grain Size (F, M, C)       Materia         Form       ft       ft       Color       Grain Size (F, M, C)       Materia         From       ft       ft       Color       Grain Size (F, M, C)       Materia         From       ft       ft       Color       Grain Size (F, M, C)       Materia         From       ft       ft       Color       Grain Size (F, M, C)       Materia         From       ft       ft       Color       Grain Size (F, M, C)       Materia         From       ft       ft       Color       Grain Size (F, M, C)       Materia         From       ft       ft       Color       Grain Size (F, M, C)       Materia         From       ft       ft       Color       Grain Size				Color	Grain Size (F, M, C)	Material	
Tom       ft       Color       Grain Size (F, M, C)       Materia         From       ft       To       ft       Color       Grain Size (F, M, C)       Materia         From       ft       To       ft       Color       Grain Size (F, M, C)       Materia         From       ft       To       ft       Color       Grain Size (F, M, C)       Materia         From       ft       To       ft       Color       Grain Size (F, M, C)       Materia         From       ft       To       ft       Color       Grain Size (F, M, C)       Materia         From       ft       To       ft       Color       Grain Size (F, M, C)       Materia         From       ft       ft       Color       Grain Size (F, M, C)       Materia       Materia         From       ft       ft       Color       Grain Size (F, M, C)       Materia       Materia         From       ft       ft       Color       Grain Size (F, M, C)       Materia       Materia         From       ft       ft       Color       Grain Size (F, M, C)       Materia       Materia         From       ft       ft       Color       Grain Size (F, M, C)       Materia			ft.	Color	Grain Size (F, M, C)	Material	
Tom       ft       Cool       Grain Size (F, M, O)       Material         From       ft       To       ft       Cool       Grain Size (F, M, O)       Material         From       ft       To       ft       Cool       Grain Size (F, M, O)       Material         From       ft       To       ft       Cool       Grain Size (F, M, O)       Material         From       ft       To       ft       Cool       Grain Size (F, M, O)       Material         From       ft       To       ft       Cool       Grain Size (F, M, O)       Material         From       ft       To       ft       Colo       Grain Size (F, M, O)       Material         From       ft       To       ft       Colo       Grain Size (F, M, C)       Material         From       ft       To       ft       Colo       Grain Size (F, M, C)       Material         From       ft       To       ft       Colo       Grain Size (F, M, C)       Material         From       ft       To       ft       Colo       Grain Size (F, M, C)       Material         Grain Size (F, M, C)       ft       Material       mu       ft       ft <t< td=""><td></td><td></td><td>ft,</td><td>Color</td><td>Grain Size (F, M, C)</td><td></td><td></td></t<>			ft,	Color	Grain Size (F, M, C)		
From       ft       Color       Grain Size (F, M, C)       Material         From       ft       To       ft       Color       Grain Size (F, M, C)       Material         From       ft       To       ft       Color       Grain Size (F, M, C)       Material         From       ft       To       ft       Color       Grain Size (F, M, C)       Material         From       ft       To       ft       Color       Grain Size (F, M, C)       Material         From       ft       To       ft       Color       Grain Size (F, M, C)       Material         From       ft       To       ft       Color       Grain Size (F, M, C)       Material         From       ft       to       ft       Color       Grain Size (F, M, C)       Material         From       ft       to       ft       Color       Grain Size (F, M, C)       Material         From       ft       to       ft       Color       Grain Size (F, M, C)       Material         From       ft       Color       Grain Size (F, M, C)       Material       Material         From       ft       Color       Grain Size (F, M, C)       Material       Material <t< td=""><td></td><td></td><td>ft.</td><td>Color</td><td>Grain Size (F. M. C)</td><td></td><td></td></t<>			ft.	Color	Grain Size (F. M. C)		
Tom       n. To       th       Color       Grain Size (F, M, C)       Material         Thom       n. To       th       Color       Grain Size (F, M, C)       Material         From       n. To       n. Color       Grain Size (F, M, C)       Material         From       n. To       n. Color       Grain Size (F, M, C)       Material         From       n. To       n. Color       Grain Size (F, M, C)       Material         From       n. To       n. Color       Grain Size (F, M, C)       Material         From       n. To       n. Color       Grain Size (F, M, C)       Material         From       n. To       n. Color       Grain Size (F, M, C)       Material         From       n. To       n. Color       Grain Size (F, M, C)       Material         From       n. To       n. Color       Grain Size (F, M, C)       Material         From       n. To       n. Color       Grain Size (F, M, C)       Material         Corr       n. tt       Color       Grain Size (F, M, C)       Material         Corr       n. tt       Color       Grain Size (F, M, C)       Material         Corr       n. tt       Color       Material       Material					Grain Size (F. M, C)		
From       ft.       To       ft.       Color					Grain Size (F, M, C)		
From       ft.       To       ft.       Color					Grain Size (F. M. C)		
From       ft.       To       ft.       Color       Grain Size (F, M, C)       Wateria         From       ft.       To       ft.       Color       Grain Size (F, M, C)       Wateria         From       ft.       To       ft.       Color       Grain Size (F, M, C)       Wateria         From       ft.       To       ft.       Color       Grain Size (F, M, C)       Wateria         From       ft.       To       ft.       Color       Grain Size (F, M, C)       Wateria         From       ft.       To       ft.       Color       Grain Size (F, M, C)       Wateria         From       ft.       To       ft.       Color       Grain Size (F, M, C)       Wateria         From       ft.       To       ft.       Color       Grain Size (F, M, C)       Wateria         Comments: <i>Lxxstalliation</i> of <i>Ixxxtalliation Ixxxtalliation Ixxxtalliation</i> Comments: <i>Lxxstalliation Ixxxtalliation Ixxxtalliation Ixxxtalliation</i> Comments: <i>Lxxxtalliation Ixxxtalliation Ixxxtalliation Ixxxtalliation</i> W       31000000000000000000000000000000000000					Grain Size (F, M, C)		
From       ft.       To       ft.       Color       Grain Size (F, M, C)       Materia         From       ft.       To       ft.       Color       Grain Size (F, M, C)       Materia         From       ft.       To       ft.       Color       Grain Size (F, M, C)       Materia         From       ft.       To       ft.       Color       Grain Size (F, M, C)       Materia         From       ft.       To       ft.       Color       Grain Size (F, M, C)       Materia         From       ft.       To       ft.       Color       Grain Size (F, M, C)       Materia         From       ft.       To       ft.       Color       Grain Size (F, M, C)       Materia         Comments:       ft.       To       ft.       Color       Grain Size (F, M, C)       Materia         (ft.       ft.       To       ft.       Color       Grain Size (F, M, C)       Materia         (ft.       ft.       To       ft.       Color       Grain Size (F, M, C)       Materia         (ft.       ft.       ft.       ft.       ft.       ft.       ft.         (ft.       ft.       ft.       ft.       ft.       ft.		ft. To			Grain Size (F, M, C)		
$ \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c}$		ft. To			Grain Size (F, M, C)		
From       ft.       To       ft.       Color       Grain Size (F, M, C)       Material         From       ft.       To       ft.       Color       Grain Size (F, M, C)       Material         Comments:       twsta IIatrio>       Off       I - 2." DIA       Ploy. Torsp       Well       To       ft.         Comments:       twsta IIatrio>       Off       I - 2." DIA       Ploy. Torsp       Well       To       ft.         Comments:       twsta off       graw-22.R.R       Image: Size (F, M, C)       Material       Image: Size (F, M, C)       Material         Comments:       twsta off       graw-22.R.R       Image: Size (F, M, C)       Material       Image: Size (F, M, C)       Image		ft. To			Grain Size (F, M, C)		
$ \begin{array}{c} From \underline{ft}, \ To \underline{ft}, \ Color \underline{ft}, \ Co$		ft. To			Grain Size (F, M, C)		
$\frac{\operatorname{From}_{\operatorname{ch}} \operatorname{From}_{\operatorname{ch}} \operatorname{From}_{\operatorname$	· · · · · · · · · · · · · · · · · · ·				Grain Size (F, M, C)	Watenal	
Comments: <u>Installation</u> of <u>1-5</u> " <u>Dia. Mao. lating</u> <u>built</u> ( <u>Ta Mest of 3</u> ) <u>nw-22RR</u> "ap of Well Location W 81.0549.92" <u>withouse Road</u> <u>8- nw 22RC</u> <u>8- nw 22RC</u> <u>8- nw 22RC</u>		ft. To	Ħ.			well To HT	
Image:					CIN-11 Location		
W 81°05'49.92" MW 81°0				1. In 1999	ap of well Locator.		154
B-marzeke B-marzeke		A		100	30'	Ser Sala	
Pa					സ പെടെല്പിര് ത്രി	n	
					W 31 06 38.83	Entrance Road	
				8- mw 8- mw 8- mw 2		Ewirowce Road	

	CTATE OF ELOI	RIDA WELL COMP	LETION REPOR	T 🎽	Date	Stamp
e 21	STATE OF FLOR		LAPPLICABLE FIELDS d Fields Where Applicab			
	□St. Johns River □South Florida □Suwannee River					
	-050	(If Applicable)		MW-ZZRC	, Officia	i Use Only
49	wp	UP Number	DID Number	62-52	4 Delineation No.	
amit Number/39				wells not constructed.	repaired, or aband	ioned O
lumber of permitted	wells constructed, repair	ed, or abandoned		16.70 Eloric	a Unique ID	
Owner's Name Osc	d waste Dis	<u>besal</u> <u>Facili</u>	y 1501 0m	Ni Day, S	t. Cloud A	2 34773
Well Location - Addr	ess, Road Name or Num	ber, City, ZIP Section Land Gr	ant	Towns	hip <u>285</u> R	ange <u>32E</u>
Latitude		Longitude	Datum:		AD 83W	GS 84
Data Obtained From	. CPS	Survey	and the second se			
Type of Work:	ConstructionRelise(s) of Well(s):	pairModification Landscape Irrigation Recreation Area Irrigation	Agricul Livesto	tural Irrigation ock y Irrigation ercial/Industrial ourse Irrigation	Site Investigation Monitoring Test Earth-Coupled 0 HVAC Supply HVAC Return	
The LE Montor Cur	now (Community of No	Sommanity Ser /	A wifer Storage 200	Recovery Drain		
lass V Injection:	Recharge Comm	ercial/Industrial Disposal Other (Describe)	Aquiler Storage and			
temediation:R	ecovery/ ar opan;	Other (Describe)			Jetted	Sonic
Other (Describe)	Cable	ToolRotary	Combination (Two or	Whor		
	Horizontal Dril	ToolRotary ngHydraulic Point	ater Level	t. After O, T H	ours at <u>4</u> face Flowing: _	GPM Yes
3. Measured Static	Nater Level 8	t. Measured Pumping Which GalvanizedPVC	isft Above	Below Land Sui Not Cased	Other	
<ol> <li>Measuring Carry</li> <li>Casing Material:</li> </ol>	Black Olect	· · · · · · · · · · · · · · · · · · ·	rom Toft.	Screen: From	Toft. S	lot Size
6. Total Well Depth	ft. Cased Dep	and the second design of the s		2	onite Other	
17. Abandonment:	Other (Explain)				onite Other	
11011	To ft No. of Ba	s Seal Material (	Check One):Net	at CementBen	Utilic	
From ft.	Toft. No. of Bag		Check One):Nea	at CementBen		
From ft.			Check One):Nea (Check One):Nea			Other
18. Surface Casing	Diameter and Depth: Fromft. To	ft. No. of Bags ft. No. of Bags	Seal Material (Check O Seal Material (Check C	ne):Neat Cemer ne):Neat Cemer	tBentonite tBentonite	Other
Diain. t	Diameter and Depth:	-	Seal Material (Check C	one): Neat Cemer	ntBentonite ntBentonite	Other Other
Dia 77 10, 1	FION C IL IS	ft. No. of Bags 19	Seal Material (Check C Seal Material (Check C	Neat Ceme	ntBentonite	Other Other
Diain.	Fromft. To	ft. No. of Bags	Seal Material (Check C Seal Material (Check C Seal Material (Check C		nt Bentonite	Other
Diain.	Fromftlo	ft. No. of Bags	Seal Material (Check			Other Saw
Screet	Nometer and Depth:	ft. No. of Bags_8	Seal Material (Check	One): Neat Ceme	ntBentonite ntBentonite	Other
Dia 2 III.	Fromft. To	ft. No. of Bags ft. No. of Bags ft. No. of Bags	Seal Material (Check Seal Material (Check	Une)ical obtim		Other
	a de la constantina d		Seal Material (Check	One): Neat Cem	entBentonite_	Other Other
	sing Diameter and Depth Fromft. To	ft. No. of Bags	Check	One): Neat Cem	entBentonite_	Other
Dia in.	Fromft. To	ft. No. of Bags ft. No. of Bags	Seal Material (Check	Une).		
	110			alysis (When Require		deppm
22. Pump Type (I Centrifugal	jetSu	omersible	1000		Field Test Kit	
Horsepower Pump Depth	ft_ Intake Depth_	ft.	Labora		A1055 0.	
24. Water Well C	ontractor:		110000	E-mail Address 70	mon bay . in	COM
Contractor Nam	ROSS CHINA	ty (GPM)ft.			Sector Way	c/
		·	Driller's Na	ame (Print or Type) _/	21 Cy 00	Page 1
Contractor's Sig	inature	tion provided in this report is accu	rate and true.)			Page 1

Permit No. 4966 1394187

SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT 2379 BROAD STREET, BROOKSVILLE, FL 34604-6899 PHONE: (352) 796-7211 or (800) 423-1476 WWW.SWFWMD.STATE.FL.US

ST. JOHNS RIVER WATER MANAGEMENT DISTRICT

4049 REID STREET, PALATKA, FL 32178-1429 PHONE: (386) 329-4500 WWW.SJRWMD.COM

NORTHWEST FLORIDA WATER MANAGEMENT DISTRICT 152 WATER MANAGEMENT DR., HAVANA, FL 32333-4712 (U.S. Highway 30, 10 miles west of Tallahassee) PHONE: (850) 539-5999

SOUTH FLORIDA WATER MANAGEMENT DISTRICT P.O. BOX 24680 3301 GUN CLUB ROAD WEST PALM BEACH, FL 33416-4680 PHONE: (561) 686-8800 WWW.SFWMD.GOV

SUWANNEE RIVER WATER MANAGEMENT DISTRICT 9225 CR 49 LIVE OAK, FL 32060 PHONE: (386) 362-1001 or (800) 226-1066 (Florida only) WWW.MYSUWANNEERIVER.COM

iuii, oii A				Carolin Cizo//ELAA (1)	Material Sand
	t. To 65	ft.	Color Dark Broom	Grain Size (F) M, C) Fine Grain Size (F, M, C)	Material
	ft. To	ft.	Color	Grain Size (F, M, C)	Material
	ft. To	ft.	Color	Grain Size (F, M, C)	Material
	ft. To	ft.	Color	Grain Size (F, M, C)	Material
	ft. To	ft.	Color	Grain Size (F. M. C)	Material
	ft. To	ft.	Color	Grain Size (F, M, C)	Material
	ft. To	ft.	Color	Grain Size (F, M, C)	Material
-	ft. To	ft.	Color	Grain Size (F, M, C)	Material
	ft,	ft.	Color Color	Grain Size (F, M, C)	Material Material
	ft. To	ft.	Color	Grain Size (F, M, C)	Material
	ft. To	ft. ft.	Color	Grain Size (F, M, C)	Material
	ftTo	ft.	Color	Grain Size (F, M, C)	Material
	ft. To	ft.	Color	Grain Size (F, M, C)	Material
	ft. To	ft.	Color	Grain Size (F, M, C)	Material
	ft. To	ft.	Color	Grain Size (F, M, C)	Material
	ft. To ft. To	ft.	Color	Grain Size (F, M, C)	Material
	ft. To ft. To	ft.	Color	Grain Size (F, M, C) Grain Size (F, M, C)	Material
	1. To	ft.	Color	Grain Size (F, M, C)	Material
	ft. To	ft.	Color	Grain Size (F, M, C)	Material
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••••==================================	ft. To	ft.	Color	Grain Size (F, M, C)	Material
	ft. To	ft.		Grain Size (F, M, C)	Material
	ft. To	ft.		Grain Size (F. M. C)	Material
	ft. To	ft.		Grain Size (F, M, C)	Material
nents:	tastalle	n.	2 of 1-2" 1	2 RC	Well To 65
nents: (IN	to stalle Nest of	3	is of 1-2"1 mw-2	22RC	Well To 6
nents: (Tw	toust of	3	1) of 1-2"D mw-2		Well To 6
nents: (Tw	to stalle	3	$i \rightarrow of i - 2'' D$ m w - 2	a Tap of Well Location	well to 6
	to stalle	atre 3	$\frac{1}{m} \frac{1}{m} \frac{1}$	a Tap of Well Location	
	to stalle	3	2 OF 1-2"D mw-z	an of Well Location	
	to stalle		$\frac{1}{m} \frac{1}{m} \frac{1}$	a Tap of Well Location 00 ⁴ → W/ 81°05 ¹ 49.92 Ξ25	

DEP Form 62-532.900(2) Incorporated in 62-532.410, F.A.C. Effective Date: October 7,

of 2

			1	101.	Dizo	MAM
	STATE OF FLORIDA P REPAIR, MODIFY, OR J		I TO CONSTRUCT,	Permit No.	5413-	19101
	□ Southwest □ Northwest □ St. Johns River	PLEASE FILL OUT ALL APP ( Denotes Required Fi	PLICABLE FIELDS elds Where Applicable)	Florida Unique Permit Stipulati	ID Ions Required (See Atta	ached)
	Sulh Florida	The water well contractor is this form and forwarding the eppropriato delegated autho	permit application to the	62-524 Quad N	lo. Delineatio	n No.
Contraction of the	DEP Delegated Authority (If )			CUP/WUP App		
		Арұлсараў		415(0)	TE TREASANNE - (POISCO) HERE	WALLUSE ON BY
Omeri Logal Nam	arto 04 <u>ount, 660 37</u> le If Corporation <u>Of Ni</u> Way dress, Road Name or Number	03 Bellarie B Address	ivel, Houston	7X State	77025 (013) ZIP Tele	)4/8-2007 phone Number
2. ISOI Well Location - Add	dress, Road Name or Number	57, C10	ual FL 3	4773		
3 11- Parcel ID No. (PIN	28-32 00 ) or Alternate Key (Circle One	0000100	000			
	ant Township Range	Oscenia		LUI	Check if 62-52	4: Yas Mo
5. Kess C. Water Well Contract	clor	License Number	Subdivision <b> </b>	12 Zien	20 bayiri.	Came
6. 12435 J. Water Well Contract	Ctor's Address	Road G	Dover		State	33527_
	ConstructionRepair		bandonment			
<ol> <li>Number of Propose</li> <li>Specify Intended U</li> </ol>			Reason for	Repair, Modificatio	on, or Abandonment	Date Stamp
Domostic Bottled Water Su		gationAgricu an IrrigationLivesto	Itural Irrigation	Site_Investigati 紨onitoring	ion	
		Nurse	ry Integrition	Test Earth-Coupled	Geolhermal	
Class I Injection	the football of the option	Golf C		HVAC Supply HVAC Return		
Class V Injection:	_RechargeCommercial	/Industrial Disposal	Aquifer Storage and Re	coveryD	rainage	
Remediation:Re	acoveryAlr Sparge					Official Use Only
Qther (Describe)		(Llote	Not hit types of wells are perm	Ated by a given per	mitting autoority)	
<ol> <li>Distance from Sept</li> <li>Estimated Well Dor</li> </ol>	tic System If ≤ 200 It. <u>M/R</u> pth <u>75</u> /I Estimated Ca	11 Facility Description	n Londfill Primary Casing Diameter	1: er <b>72. i</b> n	2. Estimated Start D Open Hole: From	All 7-23 201
	Interval: FromTo		, ,			
	atorial: Bluck Steel Not Cased	Galvanized	PVC	Stainless Ste	el	
16. Secondary Casing:	MR Telescope Casing		e Casing Dlameter	in.		
	Material: MA Black Steel				Other	
	ction, Repair, or At; andonme					
Combinatio	on (Two or More Methods) DrillingPlugged by A	Hand Driven (Well	Point, Sand Point)	Hydraulic F	Point (Direct Push)	
19. Proposed Grouting From To From To From To	Seal Material (t Seal Material (t	ondary, and Additional C Bentonite Neat Cen Bentonite Neat Cen Bentonite Neat Cen Bentonite Neat Cen	ient Other ient Other ient Other	}		
10.0071591-0-0-021-020-0	per of existing wells on site	Listr	umber of existing unus	ed wells on site		
21. Is this well or any e	existing well or wate: withdraw	al on the owner's contigu	ous properly covered ur	nder a Consum	ptive/Water Use Per	mit (CUP/WUP)
or CUP/WUP Appl	lication?YesNo	5 If yes, complete the fo	lowing: CUP/WUP No.		District Well ID	
22. Latitude	Longit	ude				
23. Data Obtained From these by cortry the time is comply with scarpermise authors in schere too positivation. The two every that is reconstruction provides the schere too exception and poor to the build with the elements of the schere of by the too	m:GPSMap table opplexition densities (0, Florda Admin m), directed has been en if the density of reflectation provided in the inpolation in all end, state, en local governments, disployed in mail of synather completence (1) be acconstant mail or Bis permit explored on, sinch or be	Survey institute Code, and but a suiter for to connecessment of writ mathe and bus two to but Tegme to provide a web a super subdivides, or wfind	Datum: NA Icently that I can the control to special item under Chepter to special for the use of Patt respect for the use of the tem- temper of the use of the tem- temper of the use of the tem- temper of the use of the tem-	the property that the s 374, Florida Statutes,	IAD 83WGS chowel to provide dia accurate to proceeding accurate a company provided the a With a company provided the a With a company provided the a With	shd that I am as the shrip than eil en lige thy that I en
Signature of Contractor	$\frown$	11073 License No.	Signature of Owner		<u>r Geostroicks</u> De	-2-20-2012
	13-11-11	/	aranthananaranan ate 2-26-1/2Exp	Instan Data	Flydrologist	Anoroval
Approval Granted By	992-	Receipt No.		Check No.	CC	1210
THIS PERMIT IS NOT V PERMIT SHALL BE AVA	ALID UNTIL PROPERLY SIGNED	D BY AN AUTHORIZED OFF RING ALL CONSTRUCTION	ICER OR REPRESENTAT , REPAIR, MODIFICATION	IVE OF THE WM	ID OR DELEGATED AN MENT ACTIVITIES.	in the second
		ELO EN Data Data	1			Page 1 of

DEP Form: 62-532.900(1) Incorporated in 62-532.400(1), F.A.C. Effective Date: October 7, 2010

Page 1 of 2

SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT SOUTH FLORIDA WATER MANAGEMENT DISTRICT 2379 BROAD STREET, BROOKSVILLE, FL 34604-6899 P.O. BOX 24680 PHONE: (352) 796-7211 or (800) 423-1476 3301 GUN CLUB ROAD WWW.SWFWMD.STATE.FL.US WEST PALM BEACH, FL 33416-4680 PHONE: (561) 686-8800 ST. JOHNS RIVER WATER MANAGEMENT DISTRICT WWW.SFWMD.GOV 4049 REID STREET, PALATKA, FL 32178-1429 PHONE: (386) 329-4500 SUWANNEE RIVER WATER MANAGEMENT DISTRICT WWW.SJRWMD.COM 9225 CR 49 LIVE OAK, FL 32060 NORTHWEST FLORIDA WATER MANAGEMENT DISTRICT PHONE: (386) 362-1001 or (800) 226-1066 (Florida only) 152 WATER MANAGEMENT DR., HAVANA, FL 32333-4712 WWW.MYSUWANNEERIVER.COM (U.S. Highway 90, 10 miles west of Tallahassee) PHONE: (850) 539-5999 WWW.NWFWMD.STATE.FL.US Comments: FNStallation of mar 22 21 Wells Tota General Site Map of Proposed Well Location NWORTHAN TRACE 0 Wells €Đ 0 (3) iN NOST 0 0 ELET Legend 1 in = 600 ft 14th SEMI-ANNUAL MONITORING EVENT Monitor Wall Location (MAY 2011) "A"-ZONE (SHALLOW) WELLS-WATER LEVEL CONTOURS Flow Lines -6 Approximiate Groundwater Divide May 2011 WASTE SERVICES OF FLORIDA INC JE 0. SOLID WASTE 1501 OMNEWAY ST CLOUD, FLORIDA Water Level Contours NOTES AERIAL PHOTOGRAPH PROVIDED BY BULLSEYE DESIGN FIGURE 1 (2009) WATER LEVEL MEASUREMENTA ACQUIRED 16 MAY 2011 VACS FACILITY ID 69455 JUNE 2011 TAMPA FL Identify known roads and landmarks, Give dit lances from all reference points or shuctures, septic systems, senitary hazards, and contamination sources, if applicable

Permit No.

DEP Form 62-532.900(1) Incorporated in 62-532.400(1), F.A.C. Effective Date: October 7, 2010

Fage 2 of 2

Florida Department of Environmental Protection - Division of Waste Management - Bureau of Petroleum Storage Systems

### **BORING LOG**

													ge 1 o		
Borin	g/Well N					Permit	Number:				FDEP Fac				er:
			-22R C	-				-	6-004 & SO4		70		89544	-	
Site N	lame: J.I	E.D. So	lid Waste	e Dispos	al	Boreho	le Start Da		03/15/12			9:20			PM
Facili	-	_			-		End Da		03/15/12	End	Time:	1:15		AM 🔽	
Envir	onmenta	l Contr	actor:			Geolog	gist's Name	*:			Environmo	ental Tec	chnicia	n's Name:	
	ng Com		ha - la -	ine	Paveme		kness (incl	nes):	Borehole Dis	ameter (inches): 6	E	Borehole		(feet): 67	
	ng Meth		echnologi	-	nt Boreho			Me	easured Well D'	TW (in feet after	OVA (list	model a	_		
	follow S		uger		oil moistu				vater recharges					FID F	PID
			Cuttings [				Г	Drum	Spread	☐ Backfill	⊢ St	ockpile	Г	Other	
			multiple i			d): Well	☐ Gro	aut	☐ Bentoni	ite 🔽 Back	611 F	Other	(decor	ibe)	
Boren	iole Con	pletior	n (check o	one):	10	wen	1 010	ut	i Bentom	ic i Dack.	ini i	Other	(desci	100)	
Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	(inclu	ude grain size b	ple Description based on USCS, od other remarks)		USCS Symbol	Moisture Content	Lab So Ground Sample and de temporat	dwater les (list number opth or ry scree
				NA	NA	NA	1 2 3 4 5 6 7 8	AF Ia S C	oprox.mn nd surf Sand, t ned. harted s	er Bern own to hely 15 face orown, fi split spoon then or her or	'below neto sangles				

Sample Type Simple Recovery $177$ $244$ $3$ $477$ $177$ $244$ $3$ $477$ $177$ $244$ $3$ $477$ $177$ $244$ $3$ $477$ $177$ $244$ $3$ $477$ $177$ $244$ $3$ $477$ $177$ $244$ $3$ $477$ $177$ $244$ $3$ $477$ $177$ $244$ $3$ $477$ $177$ $244$ $3$ $477$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $177$ $17$	ing/Well Number: MW-22R C	Start Date:         03/15/           End Date:         03/15/
$SS \begin{array}{c} 776}{77} \begin{array}{c} 24 \\ 3 \\ 4 \\ 7 \end{array} \\ \\ SS \begin{array}{c} 77 \\ 24 \\ 7 \end{array} \\ \\ \begin{array}{c} 27 \\ 7 \\ 7 \end{array} \\ \\ \begin{array}{c} -15 \\ -16 \\ -17 \\ -18 \\ -19 \\ -20 \\ Silty soud, brown, fine \\ \begin{array}{c} -17 \\ -18 \\ -19 \\ -20 \\ Silty soud, brown, fine \\ \begin{array}{c} -17 \\ -18 \\ -19 \\ -20 \\ Silty soud, brown, fine \\ \begin{array}{c} -17 \\ -18 \\ -19 \\ -20 \\ -21 \\ -21 \\ -22 \\ -23 \\ -24 \end{array} \\ \begin{array}{c} -16 \\ -17 \\ -18 \\ -19 \\ -20 \\ -21 \\ -22 \\ -23 \\ -24 \end{array} \\ \begin{array}{c} -17 \\ -18 \\ -19 \\ -20 \\ -21 \\ -22 \\ -23 \\ -24 \end{array} \\ \begin{array}{c} -17 \\ -18 \\ -19 \\ -20 \\ -21 \\ -22 \\ -23 \\ -24 \end{array} \\ \begin{array}{c} -17 \\ -18 \\ -19 \\ -20 \\ -21 \\ -22 \\ -23 \\ -24 \end{array} \\ \begin{array}{c} -17 \\ -18 \\ -19 \\ -20 \\ -21 \\ -22 \\ -23 \\ -24 \end{array} \\ \begin{array}{c} -17 \\ -18 \\ -19 \\ -20 \\ -21 \\ -22 \\ -23 \\ -24 \end{array} \\ \begin{array}{c} -17 \\ -18 \\ -19 \\ -20 \\ -21 \\ -22 \\ -23 \\ -24 \end{array} \\ \begin{array}{c} -17 \\ -18 \\ -19 \\ -20 \\ -21 \\ -22 \\ -23 \\ -24 \end{array} \\ \begin{array}{c} -17 \\ -18 \\ -21 \\ -22 \\ -23 \\ -24 \end{array} \\ \begin{array}{c} -17 \\ -18 \\ -21 \\ -22 \\ -23 \\ -24 \end{array} \\ \begin{array}{c} -17 \\ -18 \\ -21 \\ -22 \\ -23 \\ -24 \end{array} \\ \begin{array}{c} -17 \\ -18 \\ -21 \\ -22 \\ -23 \\ -24 \end{array} \\ \begin{array}{c} -17 \\ -18 \\ -21 \\ -22 \\ -23 \\ -24 \end{array} \\ \begin{array}{c} -17 \\ -18 \\ -21 \\ -22 \\ -23 \\ -24 \end{array} \\ \begin{array}{c} -17 \\ -18 \\ -21 \\ -22 \\ -23 \\ -24 \end{array} \\ \begin{array}{c} -17 \\ -18 \\ -21 \\ -21 \\ -21 \\ -21 \\ -21 \\ -21 \\ -21 \\ -21 \\ -21 \\ -21 \\ -21 \\ -21 \\ -21 \\ -21 \\ -21 \\ -21 \\ -21 \\ -21 \\ -21 \\ -21 \\ -21 \\ -21 \\ -21 \\ -21 \\ -21 \\ -21 \\ -21 \\ -21 \\ -21 \\ -21 \\ -21 \\ -21 \\ -21 \\ -21 \\ -21 \\ -21 \\ -21 \\ -21 \\ -21 \\ -21 \\ -21 \\ -21 \\ -21 \\ -21 \\ -21 \\ -21 \\ -21 \\ -21 \\ -21 \\ -21 \\ -21 \\ -21 \\ -21 \\ -21 \\ -21 \\ -21 \\ -21 \\ -21 \\ -21 \\ -21 \\ -21 \\ -21 \\ -21 \\ -21 \\ -21 \\ -21 \\ -21 \\ -21 \\ -21 \\ -21 \\ -21 \\ -21 \\ -21 \\ -21 \\ -21 \\ -21 \\ -21 \\ -21 \\ -21 \\ -21 \\ -21 \\ -21 \\ -21 \\ -21 \\ -21 \\ -21 \\ -21 \\ -21 \\ -21 \\ -21 \\ -21 \\ -21 \\ -21 \\ -21 \\ -21 \\ -21 \\ -21 \\ -21 \\ -21 \\ -21 \\ -21 \\ -21 \\ -21 \\ -21 \\ -21 \\ -21 \\ -21 \\ -21 \\ -21 \\ -21 \\ -21 \\ -21 \\ -21 \\ -21 \\ -21 \\ -21 \\ -21 \\ -21 \\ -21 \\ -21 \\ -21 \\ -21 \\ -21 \\ -21 \\ -21 \\ -21 \\ -21 \\ -21 \\ -21 \\ -21 \\ -21 \\ -21 \\ -21 \\ -21 \\ -21 \\ -21 \\ -21 \\ -21 \\ -21 \\ -21 \\ -21 \\ -21 \\ -21 \\ -21 \\ -21 \\ -21 \\ -21 \\ -21 \\ -21 \\ -21 \\ -21 \\ -21 \\ -21 \\ -21 \\ -21 \\ -21 \\ -21 \\ -21 \\ -21$		Lab Cat
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24	5 22 24	SM 5
$SS \begin{array}{ c c c c c c c c c c c c c c c c c c c$	> 25+0 12	SW S

Boring	g/Well N			FDEP I	acility 1		ation Nun	nber:	Site Name:	Borehole			03/15/12
Sample Type	Sample Depth Interval (feet)	22 Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	89544 Net OVA	Depth (feet)	(inclu	J.E.D. SWDF Sample Description ade grain size based on USCS, odors and other remarks)	s, staining,	End Da USCS Symbol	Moisture Content	03/15/12 Lab Soil and Groundwater Samples (list sample number and depth or temporary screet interval)
SS	30 ta 32	24	JWW J	NA	NA	NA	31 32 33	Sand Silt	, light brown to 31' th Isond, brown, fine to	nen	SW	5	
SS	35to 37	24	22 22				34 35 36 37 38	Send Si 14	, light brown to 36.5 , sand, fine to med	they	sw SM	S	
SS	40 +0 42	24	65 MB				39 40 41 42 43	Sond	: light brown, fine to i	ned	SW	S	
SS	45+0 47	24	461723				44 45 46 47	Silty	sond, brown, fine."	Turns	SM	S	

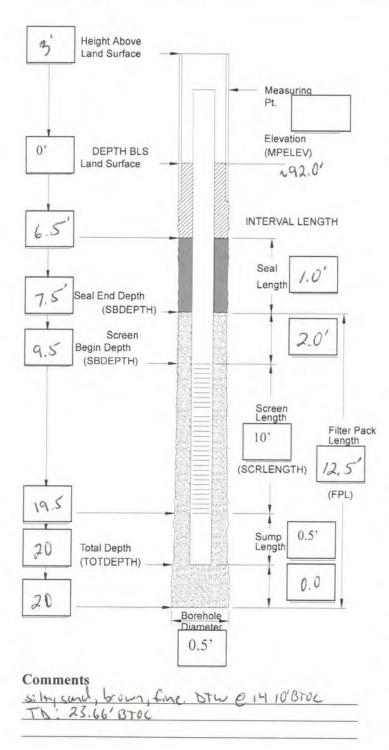
Boring	g/Well N	umber 22R C		FDEP I	acility I	dentifica 89544	ation Num	iber:	Site Name: J.E.D. SWDF	Borehole	Start D End Da		03/15/12 03/15/12
Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	(inclu	Sample Description ade grain size based on USCS, odor and other remarks)	s, staining,	USCS Symbol	Moisture Content	Lab Soil and Groundwate Samples (list sample number and depth or temporary scree interval)
22	50 to 52	24	75827	NA	NA	NA	49 50 51 52	s: H	ty sund, brown, fine t	o red	SM	S	
SS	55 to 57	24	4735				53 54 55 55 56 57 58	S:14	y send, brown, fine h	omed	54	S	
22	60 to 62	24	5345				59 60 61 62 63	Si )ti quar	y and, brown turning y at 61.5; fine to no	olive	SM	2	
55	65 to	24	9	V			64 65 66		1 sond w/significant amou s gray to grayish gree		ML	S	

Borir	ng/Well N	Number -22R C		FDEP	Facility I	dentific 89544	ation Nurr	nber:	Site Name: J.E.D. SWDF		le Start I End D		03/15/12 03/15/12
Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)		Sample Descrip ade grain size based on USC and other remar	otion CS, odors, staining,	USCS Symbol	Moisture Content	Lab Soil and Groundwate Samples (list sample number and depth or temporary scree interval)
22	65 %	24	7 8	NA	NA	MA	67 68 69 70 71 72 73 74 75 76 76 77 78 79 80 81 81 82 83 84	fin	E		ML	5	

ATTACHMENT III WELL CONSTRUCTION LOGS DEVELOPMENT LOGS FDEP FORMS 62-701.900(30)

### WELL CONSTRUCTION LOG ABOVE GROUND COMPLETION

Well I.D.: <u>MW - 22R A</u> WACs ID: _____ Drilling Company: <u>NET</u> Drillers: <u>Greg Waxel, Randy Letts</u> Geologist/Engineer: Joe Terry

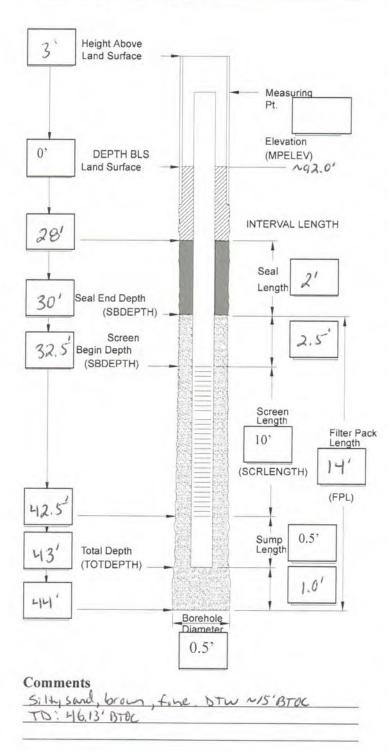


te: J.E.D. Solid Waste D		
stallation Method: Hollow		g CME75)
asing Installation Date: M	with 14,2012	
ell Type: <u>monitor</u>	ring well	
Start : 1120		
end: 1315 (filter puch	e seal arout	
ener cuite par	-,, , ,,	
Well Completion		
Guard Posts (Y /(N))	Date: Mark 20.	2012
Surface Pad Size:		
Protective Casing or C	over	
Diameter/Type:		ue)
Depth BGS: 2 ft	Weep Hole (Y/(	N)
Grout		
Composition/Proportion	s: Portland Type I/I	I w/~3%
bentonite		
Placement Method:	poured	
Seal	Date: Mun	5 14,2012
Type: bentonite	Date w	511,0000
Source: Wyoben Mi	ed use of the ba	
Set-up/Hydration Time:	child Chip	
Placement Method: <u>po</u>		
Vol. Fluid Added: 39	th Mons	
Filter Pack		
Type: <u>30/45 sand</u>	1.50// 1	
Source: Standard		
Amount Used: 6 b		
Placement Method:	oured down aug	2
Well Riser Pipe		
Casing Material :		
Casing Inside Diameters	= 2 in.	
Screen		
Material: Sch 40 I		
Inside Diameter :		in.
Screen Slot Size:	0.006	in.
Sump or Bottom Cap (	DN)	
	0.5 ft sump	
Backfill Plug (Y/(N)	oto re outup	
Material:		
Discourse Mart 1		
Set-up/Hydration Time:		
Total Water Volume D		
Introduced (Gal):		L .
	Recovered	
(1,2) 11		
(Gal):		
(Gal): Reviewed By:	Date:	

### WELL CONSTRUCTION LOG ABOVE GROUND COMPLETION

Well I.D.: <u>MW - 22R B</u> WACs ID: _____ Drilling Company: <u>NET</u> Drillers: <u>Greg Waxel, Randy Letts</u>

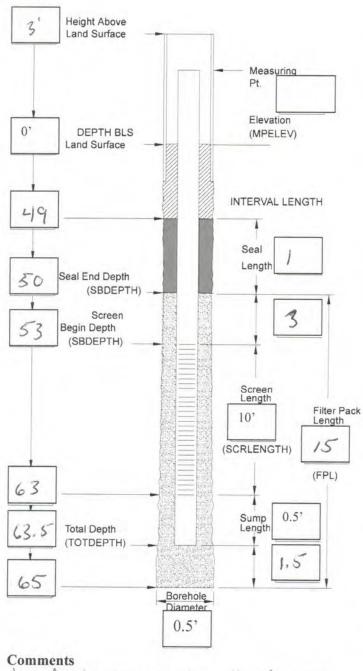
Geologist/Engineer: Joe Terry



Site: J.E.D. Solid Waste Dis	sposal Facility	
nstallation Method: Hollow		CME75)
Casing Installation Date: Mu		
Well Type: monitori		
Start: 1320 on 3-14	1-12	
end: 1445 augered 4		
start: 1015 on 3-15-	12 End: 12:00	
Well Completion		
Guard Posts (Y / N) 1		
Surface Pad Size:	5_ftx_13	ft
Protective Casing or Co	over	
Diameter/Type: 6	5" Anodized Al (blu	ue)
Depth BGS: 2 ft	Weep Hole (Y/M	((V
Grout		
Composition/Proportions	: Portland Type I/II	w/~3%
bentonite	ALC: NO	
Placement Method:	ooured	
Seal	Date: March	6 15,2012
Type: _ 30/65 sand		
Source: <u>Standard S</u>	07 bag	
Set-up/Hydration Time: _	NA	
Placement Method: +r	enie pipe	
Vol. Fluid Added: ~2		
Filter Pack		
Type: <u>30/45 sand</u>		
Source: Standard	50# bag	
Amount Used: 6 bag	(	
Placement Method: tre	nie pipe	
Well Riser Pipe		
Casing Material :S	Sch 40 PVC	
Casing Inside Diameters:		
Screen		
Material: Sch 40 P	VC	
Inside Diameter :		in.
Screen Slot Size:	0.006	in.
	0.000	
Sump or Bottom Cap (X	)N)	
	.5 ft sump	
Backfill Plug (Y/N)	is nounp	
Material:		
DI LA LA		
Set-up/Hydration Time:		
· · · · · · · · · · · · · · · · · · ·	wing Constant	
Total Water Volume Du	0	
Introduced (Gal):	Recovered	
(Gal):		
Reviewed	D	
By:	Date:	

#### WELL CONSTRUCTION LOG ABOVE GROUND COMPLETION

Well I.D.: <u>MW - 22RC</u> WACs ID: _____ Drilling Company: <u>NET</u> Drillers: <u>Greg Waxel, Randy Letts</u> Geologist/Engineer: Joe Terry



Legged splitspoon samples collected on 5-it centers starting at 15ft BLS and stopping at 67ft BLS. TD of well: 66.59 ft BTOL

Site: J.E.D. Solid Waste Disposal Facility Installation Method: Hollow Stem Auger (rig CME75) Casing Installation Date: March 15, 2012 Well Type: _____ monitoring well Sturt: 1220 End: 1745 (filter, seal and some grout. Kernaming grout completed on 3-16-12) after well was developed Well Completion Guard Posts (Y (N)) Date: March 20, 2017 Surface Pad Size: 5 ft x 13 **Protective Casing or Cover**  

 Diameter/Type:
 6" Anodized Al (blue)

 Depth BGS:
 2 ft

 Weep Hole (Y/N)

 Grout Composition/Proportions: Portland Type I/II w/~3% bentonite Placement Method: poured Seal Date: Murch 15 2012 Type: 30/65 5cmd Source: 1- Standard SO# by Set-up/Hydration Time: NA Placement Method: trenie pipe Vol. Fluid Added: ~10 gol **Filter Pack** Type: 30/45 sand Source: Standard 50# bag Amount Used: 5 brigs Placement Method: trenie pipe Well Riser Pipe Casing Material : Sch 40 PVC Casing Inside Diameters: 2 in. Screen Material: Sch 40 PVC Inside Diameter : in. Screen Slot Size: 0.006 in. Sump or Bottom Cap ((Y)/ N) Type/Length: _____ 0.5 ft sump Backfill Plug (Y/(N)) Material: Placement Method: Set-up/Hydration Time: **Total Water Volume During Construction** Introduced (Gal): _____ Recovered (Gal): Reviewed Date: By:

**Monitoring Well Development** 

Date: NWU 15, 2012 Technician: Joe Terry	r PVC) Peristaltic Centrifugal	ID: ///	el Meter: Solingt	07.3-15-12	Final Depth of Pump or Intake Tubing: 22 ft. (BTOC) Screen Interval: 12. ft to 27. ft (BTOC)	
much 15, 20	flon XSS A Mothe	9 S/N or ID:	Water Level Meter:	10 min.	_ft. (BTOC) Scree	
	Pump Type: X Submersible ( $\frac{1}{2}$ Teflon $\xrightarrow{SS} SS \times $	Water Quality Meter (Make & Model): $\mathcal{NA}$	5-12453	Total Purging Time: 14/0 min.	or Intake Tubing: 22	
1501 Omni Way, St. Cloud, FL	Bailer	Water Quality Mete	S/N or ID: METC4573	Purging: 1140		
	1ethod: Pump 🗵	I troos while	H 20202	Time @ End of Purging:	22 ft. (BTOC)	-
Location:	Development N	vartive a	odel): La Mo	0250		
Site: J.E.D. SWMF	Well ID:Development Method: Pump 区	Pump (Make & Model): Procentive water Sport I	Turbidity Meter (Make & Model): Lee No 44 2020e	Time (a) Start of Purging: $0910$	Initial Depth of Pump or Intake Tubing: _	-

Comments		recharge then surged well + up and down with screen zone. Then purged well represented by Until 1140. Each fine continued purge water	a. a NTU,		
Depth to Water (ft) BTOC	14.67	40. Each	ty was		
Color	brown clear	recharge then surged well it up and down within scre repeatedly until 1140. Ear	eved. Fhat turbishity was a. a NTU.		
Turbidity (NTU)	>1000	it up a	lewed.		
Cumulative Purge Volume (gal)	0	ed well to chawing	urdely c		
Purge Volume (gal)	0	purge - allowed by rapidly to 10 minutes.	ouch but quir		
Purge Rate (GPM)	1, -1	w/pump	was clo		
Time	02101				

Notes: TD = 23 (4 - DTW 141.02 = 8.48 × 1.47 gulft, (6" borchole) = 13 gule = 1 well volume Final 400 burged: approximently 147 (77 + (10 × ~7gul)) Final Depth to Water: 14,10 (+ 1870C Final Depth well depth: 23.66 (+ 1370C

**Monitoring Well Development** 

Technician: Joe Terry	Peristaltic Centrifugal		Sol, 25+		4/O ft. (BTOC) Final Depth of Pump or Intake Tubing: $4/O$ ft. (BTOC) Screen Interval: $3S$ ft to $4S$ ft (BTOC)	
Date: Nurt 16, 2012 To	lon 🗶 SS Other)	S/N or ID:	Water Level Meter:	S min.	ft. (BTOC) Screen Interval:	
	Bailer $\Box$ Pump Type: <u>X</u> Submersible (_ Tefton <u>X</u> SS _ Other _	Water Quality Meter (Make & Model): $\mathcal{M}_{\mathcal{M}}$	E72953	Total Purging Time: 365 min.	or Intake Tubing: 4/0	-
1501 Omni Way, St. Cloud, FL			S/N or ID: ME12953	f Purging: 1320	OC) Final Depth of Pump c	-
Location: 15	velopment Method: Pump	adfes Rediple I	La Nork 2020	715 Time @ End of Purging:		-
Site: J.E.D. SWMF	Well ID: MW-22R 3 Development Method: Pump 🗵	Pump (Make & Model): Corundfes Redifle I &	Turbidity Meter (Make & Model): La No We 2020 2	Time @ Start of Purging: 0715	Initial Depth of Pump or Intake Tubing:	-

Time	Purge Rate (GPM)	Purge Volume (gal)	Cumulative Purge Volume (gal)	Turbidity (NTU)	Color	Depth to Water (ft) BTOC	Comments
0730	1. 4	18	18	000/<	brown	15,45	
07570	41.0	28	419	>1000	brown		
0755	4), O	30	69			18.31	
09.50	2.0	09/1	529	Reduced	pure rule bely	use hear	Reduced pure rule becomes kept tripping breaker on VFD conviller
1005	2.0	30	559	21000	brown	16.70	l .
1130	3.0	170	129	11/12	brown	18.87	
1200		90	819				Swoped Durys and survey
1210	Resumed	OUTA C 1.5	56PM W/1	turizine	and 121 provint		Excludes one and corrined
1235	1.5	37.5	856.5	>1000		16.60	pures w/ PÅ HUMIUNE IZV
1315	1.5	60	916.5	302		16.60	SS subrevible pump
1320	Stopped	DUrch					
Contraction of the second seco						Statement of the statem	

Notes: Initial OTW: 13.71 ft BTOC, Initial turbidity > 10001741.

During purgues periodiculty surged well by rapidly raising pump up & down in screen zone

Stopped purch at 1320, find turbidity was 302 NTU - typical for this sites deeper wells when neuly instilled

Final DTW: 13.51 f+ Broc Final Drul Dept.: -16.13 f+ Broc

Centrifugal Technician: Joe Terry Peristaltic Solust NA Water Level Meter: S/N or ID: Date: March 16, 2012 Pump Type: X Submersible ( Teflon  $\times$  SS Other _____ min. 290 **Monitoring Well Development** 2A Total Purging Time: Pump (Make & Model): 124 HUrritine & Brunkles Red 404 Water Quality Meter (Make & Model): ME LAGS 3 1501 Omni Way, St. Cloud, FL 1320 S/N or ID: Bailer Time @ End of Purging: Well ID: MW -73KC_ Development Method: Pump ⊠ Turbidity Meter (Make & Model): La No HE 20202 Location: Time (a) Start of Purging: 0830Site: J.E.D. SWMF

ft. (BTOC) Final Depth of Pump or Intake Tubing:  $\overline{\mathcal{E} \ \mathcal{O}}$ 

60

Initial Depth of Pump or Intake Tubing:

Belsie lind Surfice Initial outy wed Hurritime pump ft. (BTOC) Screen Interval:  $\overrightarrow{53}$  ft to  $\overrightarrow{63}$  ft. (BTOC) Comments developred Stopper] complexe development Depth to Water (ft) 25.11 25.33 36.20 25.33 36.20 BTOC 36,03 26,50 241. rinotes to Color Gray cray 9-0-1 9 Par any brown hand cray Turbidity 658 (NTU) 4 >1000 71000 0001< 638 222 71000 > 1000 50 Switc Purge Volume Cumulative (gal) 235 210 119 04 96 615 653 533 335 L153 0 ard 0400 Purge Volume Ultizare (gal) 56 19 35 12 11 100 120 0 09 017 100 士 Purge Rate (GPM) Renoved 1. 41 1.4 R.S 2.5 1. 4 1.4 5 17 5 1 J 220 1230 1100 1200 0830 1050 0111 1255 310 Time 0101 1150 0955

F. m. ( DTW: 141, 441, 0700 Notes: Initial Otu: 141-92' BTUC. lowering punp in screen zone size when newly installed by rapidly ruising and at this for deep wells During Durging periodizally surged well F. 4. 1 turbidity 322 NTU - typitul

tetal depth: 66.58 ft 1370C Firm



# Florida Department of **Environmental Protection**

Bob Martinez Center 2600 Blair Stone Road Tallahassee, Florida 32399-2400 DEP Form # 62-701.900(30) Form Title: Monitoring Well Completion Report Effective Date: January 6, 2010 Incorporated in Rule 62-701.510(3), F.A.C.

#### MONITORING WELL COMPLETION REPORT

DATE: April 11, 2012
FACILITY NAME: J.E.D. Soild Waste Management Facility
DEP PERMIT NO.: <u>SC49-0199726-004 &amp; SO49-019972</u> WACS FACILITY ID NO.: <u>89544</u>
WACS MONITORING SITE NUM.: 28685 WACS WELL NO.:MW-22RA
WELL TYPE: BACKGROUND 🔀 DETECTION 🗆 COMPLIANCE 🗆
LATITUDE:28°3'34.703" LONGITUDE:81°6'0.622"
(see back for LAT / LONG requirements):
Coordinate Accuracy <1 foot Datum NAD 83 Elevation Datum NGVD 29
Collection Method GPS Collection Date April 4, 2012
Collector Name Deborah Peavey Collector Affiliation Peavey & Associates
AQUIFER MONITORED: Surficial
DRILLING METHOD: Hollow Stem Auger DATE INSTALLED: March 14, 2012
INSTALLED BY: National Environmental Technologies
BORE HOLE DIAMETER: 6 inches TOTAL DEPTH: 20 (BLS)
CASING TYPE: PVC CASING DIAMETER: 2 inches CASING LENGTH: 13
SCREEN TYPE: PVC SCREEN SLOT SIZE: 6 slot (0.006-in) SCREEN LENGTH: 10 feet
SCREEN DIAMETER: 2 inches SCREEN INTERVAL: 9.5 TO 19.5 (BLS)
FILTER PACK TYPE:sand FILTER PACK GRAIN SIZE:30/45
INTERVAL COVERED: 7.5 TO 20 (BLS)
SEALANT TYPE: Bentonite SEALANT INTERVAL: 6.5 TO 7.5 (BLS)
GROUT TYPE: <u>Cement/Bentonite</u> GROUT INTERVAL: 0 TO 6.5 (BLS)
TOP OF CASING ELEVATION (NGVD): GROUND SURFACE ELEVATION (NGVD):92.38
DESCRIBE WELL DEVELOPMENT: Over pumping w/electric submersible pump/mechanical surge w/block
POST DEVELOPMENT WATER LEVEL ELEVATION (NGVD): 80.9
DATE AND TIME MEASURED: March 15, 2012 at 11:45
REMARKS: Total volume purged during development: ~147 gallons. Final turbidity: 2.2 NTU. Soil in screen
zone is silty sand, brown, fine (USCS symbol SM).
NAME OF PERSON PREPARING REPORT: Robert Thompson, P.G.
Geo-Services & Consulting, LLC (813) 418-2007 thompsonrw@hotmail.com
(Name, Organization, Phone No., E-mail)

Northwest District 160 Government Center Pensacola, FL 32501-5794 850-595-8360

Northeast District 
 References
 District
 Southwest District
 South District
 South District

 7825 Baymeadows Way Ste 200B
 3319 Maguire Blvd., Ste. 232
 13051 N. Telecom Pky.
 2295 Victoria Ave., Ste. 364

 Jacksonville, FL 32256-7590
 Orlando, FL 32803-3767
 Temple Terrace, FL
 Fort Myers, FL 33901-3881

 904-807-3300
 407-894-7555
 813-632-7600
 239-332-6975

Central District

Southwest District

South District Fort Myers, FL 33901-3881 West Palm Beach, FL 33401

Southeast District 400 North Congress Ave. 561-681-6600



# Florida Department of **Environmental Protection**

Bob Martinez Center 2600 Blair Stone Road Tallahassee, Florida 32399-2400 DEP Form # 62-701.900(30) Form Title: Monitoring Well Completion Report Effective Date: January 6, 2010 Incorporated in Rule 62-701.510(3), F.A.C.

#### MONITORING WELL COMPLETION REPORT

DATE: <u>April 11, 2012</u>
FACILITY NAME: J.E.D. Soild Waste Management Facility
DEP PERMIT NO.: SC49-0199726-004 & SO49-019972 WACS FACILITY ID NO.: 89544
WACS MONITORING SITE NUM.: 28686 WACS WELL NO.:MW-22RB
WELL TYPE: BACKGROUND 🔀 DETECTION 🗆 COMPLIANCE 🗆
LATITUDE:28°3'34.665" LONGITUDE:81°5'59.850"
(see back for LAT / LONG requirements):
Coordinate Accuracy <1 foot Datum NAD 83 Elevation Datum NGVD 29
Collection Method GPS Collection Date April 4, 2012
Collector Name Deborah Peavey Collector Affiliation Peavey & Associates
AQUIFER MONITORED: Intermediate
DRILLING METHOD: Hollow Stem Auger DATE INSTALLED: March 15, 2012
INSTALLED BY: National Environmental Technologies
BORE HOLE DIAMETER: 6 inches TOTAL DEPTH: 43 (BLS)
CASING TYPE: PVC CASING DIAMETER: 2 inches CASING LENGTH:35
SCREEN TYPE: PVC SCREEN SLOT SIZE: 6 slot (0.006-in) SCREEN LENGTH: 10 feet
SCREEN DIAMETER:       2 inches       SCREEN INTERVAL:       33       TO_43       (BLS)
FILTER PACK TYPE:       sand         FILTER PACK GRAIN SIZE:       30/45
INTERVAL COVERED: <u>30</u> TO <u>44</u> (BLS)
SEALANT TYPE: <u>30/65 sand</u> SEALANT INTERVAL: <u>28</u> TO <u>30</u> (BLS)
GROUT TYPE: <u>Cement/Bentonite</u> GROUT INTERVAL: 0 TO 28 (BLS)
TOP OF CASING ELEVATION (NGVD):94.86 GROUND SURFACE ELEVATION (NGVD):92.39
DESCRIBE WELL DEVELOPMENT: Over pumping w/electric submersible pump/mechanical surge w/pump
POST DEVELOPMENT WATER LEVEL ELEVATION (NGVD): 81.35
DATE AND TIME MEASURED: March 16, 2012 at 13:25
REMARKS: Total volume purged during development: ~916 gallons. Final turbidity: 302 NTU. Soil in screen
zone is silty sand, light brown, fine (USCS symbol SM). High turbidity typical for new deep wells on site.
NAME OF PERSON PREPARING REPORT: Robert Thompson, P.G.
Geo-Services & Consulting, LLC (813) 418-2007 thompsonrw@hotmail.com
(Name, Organization, Phone No., E-mail)

Northwest District 160 Government Center Pensacola, FL 32501-5794

850-595-8360

Normeast DistrictCentral DistrictSouthwest DistrictSouth District7825 Baymeadows Way Ste 200B3319 Maguire Blvd., Ste. 23213051 N. Telecom Pky.2295 Victoria Ave., Ste. 364Jacksonville, FL 32256-7590Orlando, FL 32803-3767Temple Terrace, FLFort Myers, FL 33901-3881904-807-3300407-894-7555813-632-7600239-332-6075

Z295 Victoria Ave., Ste. 364Soutneast DistrictFort Myers, FL 33901-3881400 North Congress Ave.239-332-6975561-681-6600

Southeast District



# Florida Department of **Environmental Protection**

Bob Martinez Center 2600 Blair Stone Road Tallahassee, Florida 32399-2400 DEP Form # 62-701.900(30) Form Title: Monitoring Well Completion Report Effective Date: January 6, 2010 Incorporated in Rule 62-701.510(3), F.A.C.

### MONITORING WELL COMPLETION REPORT

DATE: <u>April 11, 2012</u>
FACILITY NAME: J.E.D. Soild Waste Management Facility
DEP PERMIT NO.: SC49-0199726-004 & SO49-019972 WACS FACILITY ID NO.: 89544
WACS MONITORING SITE NUM.: 28687 WACS WELL NO.:MW-22RC
WELL TYPE: BACKGROUND 😥 DETECTION 🗆 COMPLIANCE 🗆
LATITUDE:
(see back for LAT / LONG requirements):
Coordinate Accuracy <1 foot Datum NAD 83 Elevation Datum NGVD 29
Collection Method GPS Collection Date April 4, 2012
Collector Name Deborah Peavey Collector Affiliation Peavey & Associates
AQUIFER MONITORED: Intermediate
DRILLING METHOD: Hollow Stem Auger DATE INSTALLED: March 15, 2012
INSTALLED BY: National Environmental Technologies
BORE HOLE DIAMETER: 6 inches TOTAL DEPTH: 63.5 (BLS)
CASING TYPE: PVC CASING DIAMETER: 2 inches CASING LENGTH: 56
SCREEN TYPE: PVC SCREEN SLOT SIZE: 6 slot (0.006-in) SCREEN LENGTH: 10 feet
SCREEN DIAMETER:       2 inches       SCREEN INTERVAL:53.5       TO 63.5       (BLS)
FILTER PACK TYPE:       sand         FILTER PACK GRAIN SIZE:       30/45
INTERVAL COVERED: <u>50</u> TO <u>65</u> (BLS)
SEALANT TYPE: 30/65 sand SEALANT INTERVAL: 49 TO 50 (BLS)
GROUT TYPE: <u>Cement/Bentonite</u> GROUT INTERVAL: 0 TO 49 (BLS)
TOP OF CASING ELEVATION (NGVD): <u>95.13</u> GROUND SURFACE ELEVATION (NGVD): <u>92.40</u>
DESCRIBE WELL DEVELOPMENT: Over pumping w/electric submersible pump/mechanical surge w/pump
POST DEVELOPMENT WATER LEVEL ELEVATION (NGVD): 80.69
DATE AND TIME MEASURED: March 16, 2012 at 13:30
REMARKS: Total volume purged during development: ~655 gallons. Final turbidity: 222 NTU. Soil in screen
zone is silty sand, brown, fine (USCS symbol SM). High turbidity typical for new deep wells on site.
NAME OF PERSON PREPARING REPORT: Robert Thompson, P.G.
Geo-Services & Consulting, LLC (813) 418-2007 thompsonrw@hotmail.com
(Name, Organization, Phone No., E-mail)

Northwest District 160 Government Center Pensacola, FL 32501-5794

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## ATTACHMENT IV PEAVEY AND ASSOCIATES FIGURE



