



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

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,

A handwritten signature in black ink that reads 'Robert Thompson'.

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

RECEIVED
MAY 01 2012
DEP Central Dist.

**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

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Mr. F. Thomas Lubozynski, P.E.
Waste Program Administrator
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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 on March 14 through 16, 2012. Replacement of monitoring well cluster MW-22 could not be 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.



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.



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, mkaiser@wsii.us or the undersigned at (813) 418-2007.

Sincerely,

Robert Thompson 4/26/2012

Robert Thompson
Senior Geologist
Florida P.G. #2560

Attachments

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

FIGURE

I:\gis\W\SI\UED\Maps\fig1_location_new.mxd



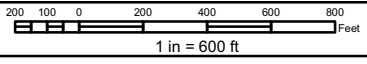
Legend

- Monitor Well Location

NOTES:

AERIAL PHOTOGRAPH
 PROVIDED BY BULLSEYE
 DESIGN
 (2009).

WACS FACILITY ID 89455



WASTE SERVICES OF FLORIDA, INC.
 J.E.D. SOLID WASTE
 1501 OMNI WAY
 ST. CLOUD, FLORIDA

Geo-Services and Consulting, LLC

TAMPA, FL

APRIL 2012

FIGURE

1

**ATTACHMENT I
PHOTOGRAPHS**

PHOTOGRAPHIC LOG

Client: Omni Waste of Osceola County, LLC

Project Name: JED Solid Waste Management Facility

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

Photograph No.: 1

Date: November 11, 2011

Direction: NA

Comments: Water quality monitoring wells MW-22 (A, B and C). Breaking up surface pad prior to grouting and overdrilling.



Photograph No.: 2

Date: November 11, 2011

Direction: NA

Comments: MW-22A casing removal.



PHOTOGRAPHIC LOG

Client: Omni Waste of Osceola County, LLC

Project Name: JED Solid Waste Management Facility

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

Photograph No.: 3

Date: November 11, 2011

Direction: NA

Comments: MW-22A location subsequent to removal and grout placement.



Photograph No.: 4

Date: November 11, 2011

Direction: NA

Comments: Grout placement in MW-22B prior to overdrilling.



PHOTOGRAPHIC LOG

Client: Omni Waste of Osceola County, LLC

Project Name: JED Solid Waste Management Facility

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

Photograph No.: 5

Date: November 11, 2011

Direction: NA

Comments: Overdrilling of MW-22B using 6 5/8 inch inside diameter hollow stem augers.



Photograph No.: 6

Date: November 11, 2011

Direction: NA

Comments: Grout placement at MW-22B subsequent to overdrilling.



PHOTOGRAPHIC LOG

Client: Omni Waste of Osceola County, LLC

Project Name: JED Solid Waste Management Facility

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

Photograph No.: 7

Date: November 11, 2011

Direction: NA

Comments: Grout placement in MW-22C prior to overdrilling.



Photograph No.: 8

Date: November 11, 2011

Direction: NA

Comments: Location subsequent to abandonment of MW-22 monitoring well cluster.



PHOTOGRAPHIC LOG

Client: Omni Waste of Osceola County, LLC

Project Name: JED Solid Waste Management Facility

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

Photograph No.: 9

Date: March 14, 2012

Direction: NA

Comments: Initiation of drilling activities at MW-22R. The shallow (MW-22RA), intermediate (MW-22RB) and deep (MW-22RC) wells are spaced ~45-inches apart.



Photograph No.: 10

Date: March 15, 2012

Direction: NA

Comments: Split spoon sample from MW-22RC. This spoon shows example of soil (silty-sand) material within screen zone of MW-22RA (screen 9.5 ft to 19.5 ft below land surface)



PHOTOGRAPHIC LOG

Client: Omni Waste of Osceola County, LLC

Project Name: JED Solid Waste Management Facility

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

Photograph No.: 11

Date: March 15, 2012

Direction: NA

Comments: Split spoon sample from MW-22RC. This spoon shows example of soil (sand to silty-sand) material within screen zone of MW-22RB (screen 33 ft to 43 ft below land surface)



Photograph No.: 12

Date: March 15, 2012

Direction: NA

Comments: Split spoon sample from MW-22RC. This spoon shows example of soil (silty-sand) material within screen zone of MW-22RC (screen 53.5 ft to 63.5 ft below land surface)



PHOTOGRAPHIC LOG

Client: Omni Waste of Osceola County, LLC

Project Name: JED Solid Waste Management Facility

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

Photograph No.: 13

Date: March 14, 2012

Direction: NA

Comments: Placing 2-inch Sch-40 PVC flush thread well casing down auger



Photograph No.: 14

Date: March 15, 2012

Direction: NA

Comments: Placing filter pack using a tremie pipe



PHOTOGRAPHIC LOG

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

1378208



STATE OF FLORIDA PERMIT APPLICATION TO CONSTRUCT, REPAIR, MODIFY, OR ABANDON A WELL

- Southwest
Northwest
St. Johns River
South Florida
Suwannee River
DEP
Delegated Authority (If Applicable) MW-22A

PLEASE FILL OUT ALL APPLICABLE FIELDS
(Denotes Required Fields Where Applicable)
The water well contractor is responsible for completing this form and forwarding the permit application to the appropriate delegated authority where applicable.

Permit No.
Florida Unique ID
Permit Stipulations Required (See Attached)
62-524 Quad No. Delineation No.
CUPWUP Application No.
ABOVE THIS LINE - FOR OFFICIAL USE ONLY

1. Owner, Legal Name of Corporation: Onni Waste of Osceola County LLC
Address: 3903 Bellaire Blvd Houston TX 77025 (813) 918-2007
2. Well Location - Address, Road Name or Number, City: 1501 Onni Way St. Cloud FL 34773
3. Parcel ID No. (PIN) or Alternate Key (Circle One): 11-28-32-000008 100000
4. Section or Land Grant: 11 Township: 28S Range: 32E County: Osceola Subdivision:
5. Water Well Contractor: Ross Chinardon License Number: 11093 Telephone Number: 813 655-3612 E-mail Address: netross@compuserve.com
6. Water Well Contractor's Address: 12435 Jess Walden Road Dover FL 33527
7. Type of Work: Construction Repair Modification Abandonment NO Longer Needed
8. Number of Proposed Wells: 2
9. Specify Intended Use(s) of Well(s):
10. Distance from Septic System if <= 200 ft. N/A
11. Facility Description: Lavatory
12. Estimated Start Date: 11-11-2011
13. Estimated Well Depth: ft. Estimated Casing Depth: ft. Primary Casing Diameter: in. Open Hole: From To ft.
14. Estimated Screen Interval: From To ft.
15. Primary Casing Material: Black Steel Galvanized PVC Stainless Steel
16. Secondary Casing: N/A Telescope Casing Liner Surface Casing Diameter in.
17. Secondary Casing Material: N/A Black Steel Galvanized PVC Stainless Steel Other
18. Method of Construction, Repair, or Abandonment: Auger Cable Tool Jetted Rotary Sonic
19. Proposed Grouting Interval for the Primary, Secondary, and Additional Casing:
20. Indicate total number of existing wells on site: 27+ List number of existing unused wells on site: 0
21. Is this well or any existing well or water withdrawal on the owner's contiguous property covered under a Consumptive Water Use Permit (CUPWUP) or CUPWUP Application? Yes No If yes, complete the following: CUPWUP No. District Well ID No.
22. Latitude Longitude
23. Data Obtained From: GPS Map Survey Datum: NAD 27 NAD 83 WGS 84

Signature of Contractor: [Signature] License No. 11093 Signature of Owner or Agent: [Signature] Date: 11-7-2011
Approval Granted By: [Signature] Issue Date: 11-14-11 Expiration Date: Hydrologist Approval:
Fee Received \$: 50 Receipt No. 804190 Check No. CC

THIS PERMIT IS NOT VALID UNTIL PROPERLY SIGNED BY AN AUTHORIZED OFFICER OR REPRESENTATIVE OF THE WMD OR DELEGATED AUTHORITY. THE PERMIT SHALL BE AVAILABLE AT THE WELL SITE DURING ALL CONSTRUCTION, REPAIR, MODIFICATION, OR ABANDONMENT ACTIVITIES.
DEP Form 62-532.900(1) Incorporated in 62-532.400(1), F.A.C. Effective Date: October 7, 2010 Page 1 of 2

Permit No. _____

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

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

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

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

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
WWW.NWFWM.DISTRICT.FL.US

Comments:

Abandonment of 1-2" dia monitoring well to 15'
MW-22A

General Site Map of Proposed Well Location



Legend
● Monitor Well Location
--- Flow Lines
--- Approximate Groundwater Divide May 2011
--- Water Level Contours
NOTES:
AERIAL PHOTOGRAPH PROVIDED BY BULLSEYE DESIGN (2009)
WATER LEVEL MEASUREMENTS ACQUIRED 16 MAY 2011
WACS FACILITY 10 69455

14th SEMI-ANNUAL MONITORING EVENT (MAY 2011) "A"-ZONE (SHALLOW) WELLS-WATER LEVEL CONTOURS WASTE SERVICES OF FLORIDA, INC. J.E.D. SOLID WASTE 1501 GINN WAY ST. CLOUD, FLORIDA	
	FIGURE 1
TAMPA, FL	JUNE 2011

MW-22A = 2" x 15' Deep
MW-22B = 2" x 35' Deep
MW-22C = 2" x 65' Deep
3 wells in proximal nest

Identify known roads and landmarks. Give distances from all reference points or structures, septic systems, sanitary hazards, and contamination sources, if applicable.

Permit No. _____

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

SOUTH FLORIDA WATER MANAGEMENT DISTRICT
P.O. BOX 24680
3301 GUN CLUB ROAD
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9225 CR 49
LIVE OAK, FL 32060
PHONE: (386) 362-1001 or (800) 226-1066 (Florida only)
WWW.MYSUWANNEERIVER.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
WWW.NWFWMD.STATE.FL.US

Comments:

Abandonment of 1-2" dia monitoring well to 35'
MW-22B

General Site Map of Proposed Well Location



Legend
● Monitor Well Location
--- Floor Lines
--- Approximate Groundwater Ditch
--- Approximate Groundwater Ditch May 2011
--- Water Level Contours

NOTES:
AERIAL PHOTOGRAPH PROVIDED BY BULLSEYE DESIGN (2009).
WATER LEVEL MEASUREMENTS ACQUIRED 10 MAY 2011.
WACS FACILITY ID 69455

Scale: 1 in = 600 ft

14th SEMI-ANNUAL MONITORING EVENT (MAY 2011)
"A" ZONE (SHALLOW) WELLS-WATER LEVEL CONTOURS
WASTE SERVICES OF FLORIDA, INC.
J.E.D. SOLID WASTE
1501 ORCHARDWAY
ST. CLOUD, FLORIDA



FIGURE

1

TAMPA, FL

JUNE 2011

MW-22A = 3" x 15' Deep
MW-22B = 3" x 35' Deep
MW-22C = 3" x 15' Deep
3 wells in proximal nest

Identify known roads and landmarks. Give distances from all reference points or structures, septic systems, sanitary hazards, and contamination sources, if applicable.

Permit No. _____

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

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

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

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

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
WWW.NWFWMD.STATE.FL.US

Comments:

*Abandonment of 1-2" dia monitoring well to 65'
MW-22C*

General Site Map of Proposed Well Location



Legend
● Monitor Well Location
--- Flow Lines
--- Approximate Groundwater Divide May 2011
--- Water Level Contours

NOTES:
AERIAL PHOTOGRAPH PROVIDED BY BULLSEYE DESIGN (2009).
WATER LEVEL MEASUREMENTS ACQUIRED 18 MAY 2011.
WACS FACILITY ID 69455

200 400 600 800
1 in = 600 ft

**14th SEMI-ANNUAL MONITORING EVENT
(MAY 2011)
"A"-ZONE (SHALLOW) WELLS-WATER LEVEL CONTOURS**

WASTE SERVICES OF FLORIDA, INC.
J.E.D. SOLID WASTE
1531 OMIWAY
ST. CLOUD, FLORIDA

EPS

TAMPA, FL JUNE 2011

**FIGURE
1**

*MW-22A = 2" x 15' Deep
MW-22B = 2" x 35' Deep
MW-22C = 2" x 65' Deep
3 wells in proximal nest*



Osceola County Health Department
1 Courthouse Sq Kissimmee, FL 34741

PAYING ON: PERMIT #: 49-WP-1378208 BILL DOC #:49-BID-18532
RECEIVED FROM: Omni Waste AMOUNT PAID: \$ 50.00
PAYMENT FORM: CREDIT CARD 80419C Visa PAYMENT DATE: 11/14/2011

MAIL TO: **Omni Waste**
3903 Bellaire Blvd
Houston, TX 77025

FACILITY NAME : Omni Waste

PROPERTY LOCATION:

1501 Omni Way
Saint Cloud, FL 34773

Lot: _____ Block: _____

Property ID: _____

EXPLANATION or DESCRIPTION:	QUANTITY	FEE
-1 - Well Abandonment	1	\$ 50.00

RECEIVED BY: UleryCL

AUDIT CONTROL NO. 49-PID-1782751



STATE OF FLORIDA WELL COMPLETION REPORT

- Southwest
 - Northwest
 - St. Johns River
 - South Florida
 - Suwannee River
 - DEP
 - Delegated Authority (If Applicable) _____
- PLEASE, FILL OUT ALL APPLICABLE FIELDS
(* Denotes Required Fields Where Applicable)

Date Stamp _____

Official Use Only _____

1. Permit Number 1378208 *CUP/WUP Number _____ *DID Number _____ 62-524 Delineation No. _____

2. Number of permitted wells constructed, repaired, or abandoned 1 *Number of permitted wells not constructed, repaired, or abandoned 0

3. Owner's Name Omni Waste of Osceola County, LLC 4. Completion Date 11-11-2011 5. Florida Unique ID _____

6. JED Solid Waste Disposal Facility, 1501 Omni Way St. Cloud, FL 34713
Well Location - Address, Road Name or Number, City, ZIP

7. County Osceola Section 11 Land Grant _____ Township 28S Range 32E

8. Latitude _____ Longitude _____

9. Data Obtained From: GPS Map Survey Datum: NAD 27 NAD 83 WGS 84

10. *Type of Work: Construction Repair Modification Abandonment

11. *Specify Intended Use(s) of Well(s):

<input type="checkbox"/> Domestic	<input type="checkbox"/> Landscape Irrigation	<input type="checkbox"/> Agricultural Irrigation	<input type="checkbox"/> Site Investigation
<input type="checkbox"/> Bottled Water Supply	<input type="checkbox"/> Recreation Area Irrigation	<input type="checkbox"/> Livestock	<input checked="" type="checkbox"/> Monitoring
<input type="checkbox"/> Public Water Supply (Limited Use/DOH)	<input type="checkbox"/> Commercial/Industrial	<input type="checkbox"/> Nursery Irrigation	<input type="checkbox"/> Test
<input type="checkbox"/> Public Water Supply (Community or Non-Community/DEP)	<input type="checkbox"/> Golf Course Irrigation	<input type="checkbox"/> Earth-Coupled Geothermal	<input type="checkbox"/> HVAC Supply
<input type="checkbox"/> Class I Injection		<input type="checkbox"/> HVAC Return	

Class V Injection: Recharge Commercial/Industrial Disposal Aquifer Storage and Recovery Drainage

Remediation: Recovery Air Sparge Other (Describe) _____

Other (Describe) _____

12. *Drill Method: Auger Cable Tool Rotary Combination (Two or More Methods) Jetted Sonic
 Horizontal Drilling Hydraulic Point (Direct Push) Other Abandonment

13. *Measured Static Water Level 6 ft. Measured Pumping Water Level N/A ft. After _____ Hours at _____ GPM

14. *Measuring Point (Describe) Ground Surface Which is 0 ft. Above Below Land Surface *Flowing: Yes No

15. *Casing Material: Black Steel Galvanized PVC Stainless Steel Not Cased Other _____

16. *Total Well Depth 15 ft. Cased Depth _____ ft. *Open Hole: From N/A To _____ ft. *Screen: From _____ To _____ ft. Slot Size _____

17. *Abandonment: Other (Explain)

From <u>0</u> ft. To <u>15</u> ft. No. of Bags <u>0.3</u>	Seal Material (Check One): <input checked="" type="checkbox"/> Neat Cement <input type="checkbox"/> Bentonite <input type="checkbox"/> Other _____
From _____ ft. To _____ ft. No. of Bags _____	Seal Material (Check One): <input type="checkbox"/> Neat Cement <input type="checkbox"/> Bentonite <input type="checkbox"/> Other _____
From _____ ft. To _____ ft. No. of Bags _____	Seal Material (Check One): <input type="checkbox"/> Neat Cement <input type="checkbox"/> Bentonite <input type="checkbox"/> Other _____
From _____ ft. To _____ ft. No. of Bags _____	Seal Material (Check One): <input type="checkbox"/> Neat Cement <input type="checkbox"/> Bentonite <input type="checkbox"/> Other _____
From _____ ft. To _____ ft. No. of Bags _____	Seal Material (Check One): <input type="checkbox"/> Neat Cement <input type="checkbox"/> Bentonite <input type="checkbox"/> Other _____

18. *Surface Casing Diameter and Depth:

Dia _____ in. From _____ ft. To _____ ft. No. of Bags _____	Seal Material (Check One): <input type="checkbox"/> Neat Cement <input type="checkbox"/> Bentonite <input type="checkbox"/> Other _____
Dia _____ in. From _____ ft. To _____ ft. No. of Bags _____	Seal Material (Check One): <input type="checkbox"/> Neat Cement <input type="checkbox"/> Bentonite <input type="checkbox"/> Other _____

19. *Primary Casing Diameter and Depth:

Dia _____ in. From _____ ft. To _____ ft. No. of Bags _____	Seal Material (Check One): <input type="checkbox"/> Neat Cement <input type="checkbox"/> Bentonite <input type="checkbox"/> Other _____
Dia _____ in. From _____ ft. To _____ ft. No. of Bags _____	Seal Material (Check One): <input type="checkbox"/> Neat Cement <input type="checkbox"/> Bentonite <input type="checkbox"/> Other _____
Dia _____ in. From _____ ft. To _____ ft. No. of Bags _____	Seal Material (Check One): <input type="checkbox"/> Neat Cement <input type="checkbox"/> Bentonite <input type="checkbox"/> Other _____
Dia _____ in. From _____ ft. To _____ ft. No. of Bags _____	Seal Material (Check One): <input type="checkbox"/> Neat Cement <input type="checkbox"/> Bentonite <input type="checkbox"/> Other _____

20. *Liner Casing Diameter and Depth:

Dia _____ in. From _____ ft. To _____ ft. No. of Bags _____	Seal Material (Check One): <input type="checkbox"/> Neat Cement <input type="checkbox"/> Bentonite <input type="checkbox"/> Other _____
Dia _____ in. From _____ ft. To _____ ft. No. of Bags _____	Seal Material (Check One): <input type="checkbox"/> Neat Cement <input type="checkbox"/> Bentonite <input type="checkbox"/> Other _____
Dia _____ in. From _____ ft. To _____ ft. No. of Bags _____	Seal Material (Check One): <input type="checkbox"/> Neat Cement <input type="checkbox"/> Bentonite <input type="checkbox"/> Other _____

21. *Telescope Casing Diameter and Depth:

Dia _____ in. From _____ ft. To _____ ft. No. of Bags _____	Seal Material (Check One): <input type="checkbox"/> Neat Cement <input type="checkbox"/> Bentonite <input type="checkbox"/> Other _____
Dia _____ in. From _____ ft. To _____ ft. No. of Bags _____	Seal Material (Check One): <input type="checkbox"/> Neat Cement <input type="checkbox"/> Bentonite <input type="checkbox"/> Other _____
Dia _____ in. From _____ ft. To _____ ft. No. of Bags _____	Seal Material (Check One): <input type="checkbox"/> Neat Cement <input type="checkbox"/> Bentonite <input type="checkbox"/> Other _____

22. Pump Type (If Known): NONE
 Centrifugal Jet Submersible Turbine
Horsepower _____ Pump Capacity (GPM) _____
Pump Depth _____ ft. Intake Depth _____ ft.

23. Chemical Analysis (When Required): N/A
Iron _____ ppm Sulfate _____ ppm Chloride _____ ppm
 Laboratory Test Field Test Kit

24. Water Well Contractor:

*Contractor Name Ross Chimardier *License Number 11093 E-mail Address netross@tampabay.net

*Contractor's Signature [Signature] *Driller's Name (Print or Type) Greg Waxel

(I certify that the information provided in this report is accurate and true.)

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

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

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

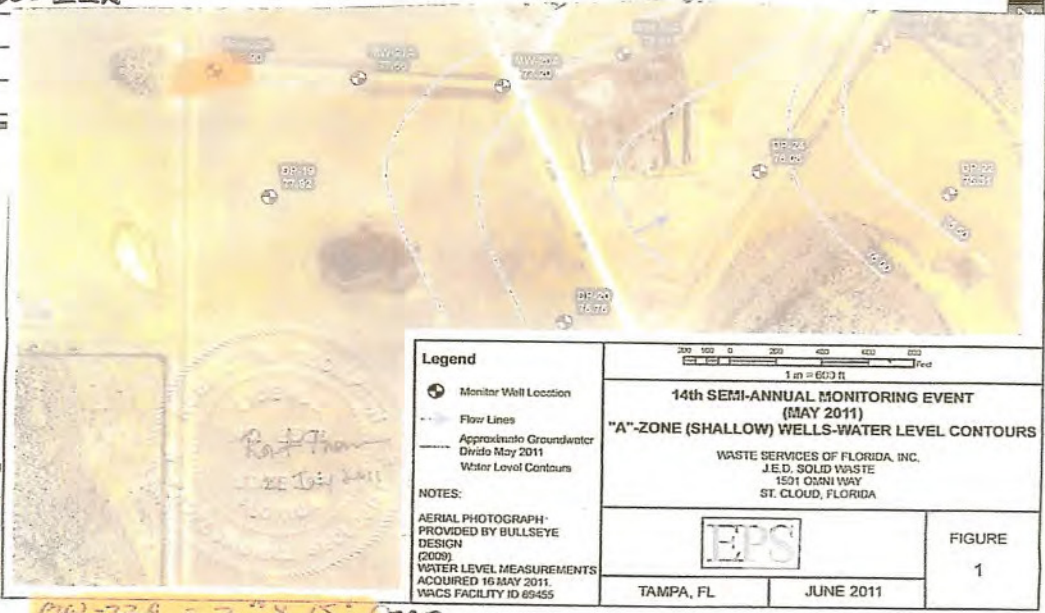
SUWANNEE RIVER WATER MANAGEMENT DISTRICT
9225 CR 49
LIVE OAK, FL 32060
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NORTHWEST FLORIDA WATER MANAGEMENT DISTRICT
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(U.S. Highway 90, 10 miles west of Tallahassee)
PHONE: (850) 539-5999
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DRILL CUTTINGS LOG (Examine cuttings every 20 ft. or at formation changes. Note cavities and depth to producing zone. Grain Size: F=Fine, M=Medium, and C=Coarse)

From	ft.	To	ft.	Color	Grain Size (F, M, C)	Material
0		15				Abandonment

Comments: MW-22A



MW-22A = 2" x 15' Deep
MW-22B = 2" x 35' Deep
MW-22C = 2" x 8' Deep
3 wells in proximal nest

Legend

- Monitor Well Location
- Flow Lines
- Approximate Groundwater Divide May 2011
- Water Level Contours

NOTES:
AERIAL PHOTOGRAPH PROVIDED BY BULLSEYE DESIGN (2009)
WATER LEVEL MEASUREMENTS ACQUIRED 16 MAY 2011
WACS FACILITY ID 69455

14th SEMI-ANNUAL MONITORING EVENT (MAY 2011)
"A"-ZONE (SHALLOW) WELLS-WATER LEVEL CONTOURS

WASTE SERVICES OF FLORIDA, INC.
J.E.D. SOLID WASTE
1501 ORNI WAY
ST. CLOUD, FLORIDA

EPS FIGURE 1

TAMPA, FL JUNE 2011



STATE OF FLORIDA WELL COMPLETION REPORT

- Southwest
 - Northwest
 - St. Johns River
 - South Florida
 - Suwannee River
 - DEP
 - Delegated Authority (If Applicable) _____
- PLEASE, FILL OUT ALL APPLICABLE FIELDS
(Denotes Required Fields Where Applicable)

Date Stamp _____

Official Use Only _____

1. Permit Number 1378208 CUP/WUP Number _____ DID Number _____ 62-524 Delineation No. _____

2. Number of permitted wells constructed, repaired, or abandoned 1 Number of permitted wells not constructed, repaired, or abandoned 0

3. Owner's Name Omni Waste of Osceola County, LLC 4. Completion Date 11-11-2011 5. Florida Unique ID _____

6. JEO Solid Waste Disposal Facility 1501 Omni Way St. Cloud, FL 34773
Well Location - Address, Road Name or Number, City, ZIP

7. County Osceola Section 11 Land Grant _____ Township 28S Range 32E

8. Latitude _____ Longitude _____

9. Data Obtained From: GPS Map Survey Datum: NAD 27 NAD 83 WGS 84

10. Type of Work: Construction Repair Modification Abandonment

11. Specify Intended Use(s) of Well(s):
- | | | | |
|---|---|---|--|
| <input type="checkbox"/> Domestic | <input type="checkbox"/> Landscape Irrigation | <input type="checkbox"/> Agricultural Irrigation | <input type="checkbox"/> Site Investigation |
| <input type="checkbox"/> Bottled Water Supply | <input type="checkbox"/> Recreation Area Irrigation | <input type="checkbox"/> Livestock | <input checked="" type="checkbox"/> Monitoring |
| <input type="checkbox"/> Public Water Supply (Limited Use/DOH) | <input type="checkbox"/> Commercial/Industrial | <input type="checkbox"/> Nursery Irrigation | <input type="checkbox"/> Test |
| <input type="checkbox"/> Public Water Supply (Community or Non-Community/DEP) | <input type="checkbox"/> Golf Course Irrigation | <input type="checkbox"/> Earth-Coupled Geothermal | <input type="checkbox"/> HVAC Supply |
| <input type="checkbox"/> Class I Injection | | <input type="checkbox"/> HVAC Return | |

Class V Injection: Recharge Commercial/Industrial Disposal Aquifer Storage and Recovery Drainage

Remediation: Recovery Air Sparge Other (Describe) _____

Other (Describe) _____

12. Drill Method: Auger Cable Tool Rotary Combination (Two or More Methods) Jetted Sonic
 Horizontal Drilling Hydraulic Point (Direct Push) Other ABANDONMENT

13. Measured Static Water Level 6 ft. Measured Pumping Water Level N/A ft. After _____ Hours at _____ GPM

14. Measuring Point (Describe) Ground Surface Which is 0 ft. Above Below Land Surface Flowing: Yes No

15. Casing Material: Black Steel Galvanized PVC Stainless Steel Not Cased Other _____

16. Total Well Depth 35 ft. Cased Depth _____ ft. Open Hole: From N/A To _____ ft. Screen: From _____ To _____ ft. Slot Size _____

17. Abandonment: Other (Explain) _____

From <u>0</u> ft. To <u>35</u> ft. No. of Bags <u>0.6</u>	Seal Material (Check One): <input checked="" type="checkbox"/> Neat Cement <input type="checkbox"/> Bentonite <input type="checkbox"/> Other _____
From _____ ft. To _____ ft. No. of Bags _____	Seal Material (Check One): <input type="checkbox"/> Neat Cement <input type="checkbox"/> Bentonite <input type="checkbox"/> Other _____
From _____ ft. To _____ ft. No. of Bags _____	Seal Material (Check One): <input type="checkbox"/> Neat Cement <input type="checkbox"/> Bentonite <input type="checkbox"/> Other _____
From _____ ft. To _____ ft. No. of Bags _____	Seal Material (Check One): <input type="checkbox"/> Neat Cement <input type="checkbox"/> Bentonite <input type="checkbox"/> Other _____
From _____ ft. To _____ ft. No. of Bags _____	Seal Material (Check One): <input type="checkbox"/> Neat Cement <input type="checkbox"/> Bentonite <input type="checkbox"/> Other _____

18. Surface Casing Diameter and Depth:

Dia _____ in. From _____ ft. To _____ ft. No. of Bags _____	Seal Material (Check One): <input type="checkbox"/> Neat Cement <input type="checkbox"/> Bentonite <input type="checkbox"/> Other _____
Dia _____ in. From _____ ft. To _____ ft. No. of Bags _____	Seal Material (Check One): <input type="checkbox"/> Neat Cement <input type="checkbox"/> Bentonite <input type="checkbox"/> Other _____

19. Primary Casing Diameter and Depth:

Dia _____ in. From _____ ft. To _____ ft. No. of Bags _____	Seal Material (Check One): <input type="checkbox"/> Neat Cement <input type="checkbox"/> Bentonite <input type="checkbox"/> Other _____
Dia _____ in. From _____ ft. To _____ ft. No. of Bags _____	Seal Material (Check One): <input type="checkbox"/> Neat Cement <input type="checkbox"/> Bentonite <input type="checkbox"/> Other _____
Dia _____ in. From _____ ft. To _____ ft. No. of Bags _____	Seal Material (Check One): <input type="checkbox"/> Neat Cement <input type="checkbox"/> Bentonite <input type="checkbox"/> Other _____
Dia _____ in. From _____ ft. To _____ ft. No. of Bags _____	Seal Material (Check One): <input type="checkbox"/> Neat Cement <input type="checkbox"/> Bentonite <input type="checkbox"/> Other _____
Dia _____ in. From _____ ft. To _____ ft. No. of Bags _____	Seal Material (Check One): <input type="checkbox"/> Neat Cement <input type="checkbox"/> Bentonite <input type="checkbox"/> Other _____

20. Liner Casing Diameter and Depth:

Dia _____ in. From _____ ft. To _____ ft. No. of Bags _____	Seal Material (Check One): <input type="checkbox"/> Neat Cement <input type="checkbox"/> Bentonite <input type="checkbox"/> Other _____
Dia _____ in. From _____ ft. To _____ ft. No. of Bags _____	Seal Material (Check One): <input type="checkbox"/> Neat Cement <input type="checkbox"/> Bentonite <input type="checkbox"/> Other _____
Dia _____ in. From _____ ft. To _____ ft. No. of Bags _____	Seal Material (Check One): <input type="checkbox"/> Neat Cement <input type="checkbox"/> Bentonite <input type="checkbox"/> Other _____

21. Telescope Casing Diameter and Depth:

Dia _____ in. From _____ ft. To _____ ft. No. of Bags _____	Seal Material (Check One): <input type="checkbox"/> Neat Cement <input type="checkbox"/> Bentonite <input type="checkbox"/> Other _____
Dia _____ in. From _____ ft. To _____ ft. No. of Bags _____	Seal Material (Check One): <input type="checkbox"/> Neat Cement <input type="checkbox"/> Bentonite <input type="checkbox"/> Other _____
Dia _____ in. From _____ ft. To _____ ft. No. of Bags _____	Seal Material (Check One): <input type="checkbox"/> Neat Cement <input type="checkbox"/> Bentonite <input type="checkbox"/> Other _____

22. Pump Type (If Known): NONE
 Centrifugal Jet Submersible Turbine
Horsepower _____ Pump Capacity (GPM) _____
Pump Depth _____ ft. Intake Depth _____ ft.

23. Chemical Analysis (When Required): N/A
Iron _____ ppm Sulfate _____ ppm Chloride _____ ppm
Laboratory Test _____ Field Test Kit _____

24. Water Well Contractor:

Contractor Name Ross Chivander License Number 11093 E-mail Address netross@tampabay.rr.com

Contractor's Signature _____ Driller's Name (Print or Type) Greg Waxel

(I certify that the information provided in this report is accurate and true.)

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

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

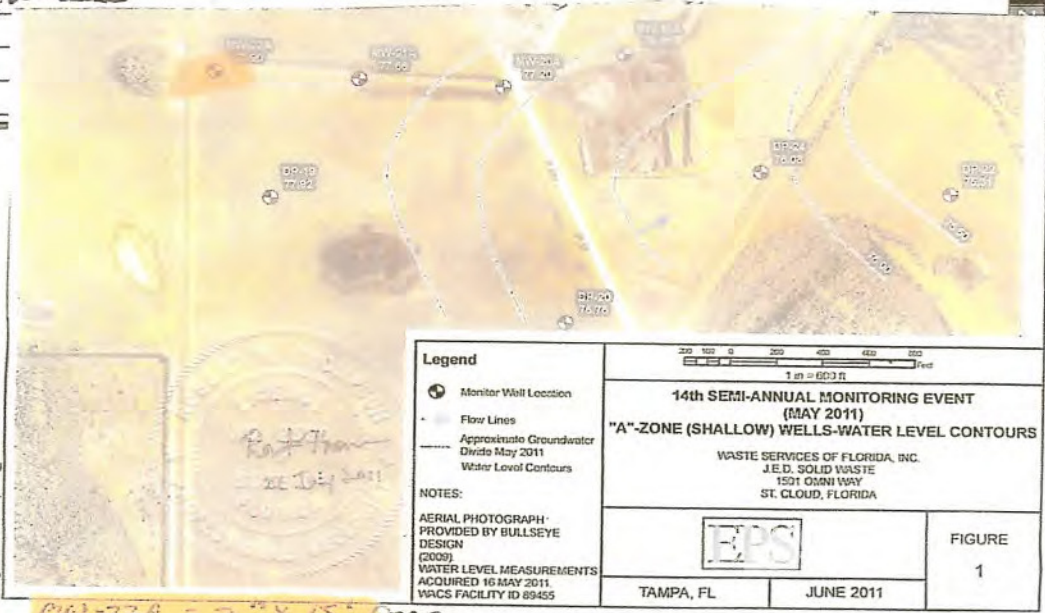
ST. JOHNS RIVER WATER MANAGEMENT DISTRICT
 4049 REID STREET, PALATKA, FL 32178-1429
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SUWANNEE RIVER WATER MANAGEMENT DISTRICT
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 152 WATER MANAGEMENT DR., HAVANA, FL 32333-4712
 (U.S. Highway 90, 10 miles west of Tallahassee)
 PHONE: (850) 539-5999
 WWW.NWFWMD.STATE.FL.US

DRILL CUTTINGS LOG (Examine cuttings every 20 ft. or at formation changes. Note cavities and depth to producing zone. Grain Size: F=Fine, M=Medium, and C=Coarse)						
From <u>0</u> ft.	To <u>35</u> ft.	Color _____	Grain Size (F, M, C) _____	Material <u>Abandonment</u>	_____	_____
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.	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.	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.	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 _____	_____	_____

Comments: MW-22B



MW-22A = 2" x 15' Deep
MW-22B = 2" x 35' Deep
MW-22C = 2" x 65' Deep
3 wells in proximal nest





STATE OF FLORIDA WELL COMPLETION REPORT

PLEASE, FILL OUT ALL APPLICABLE FIELDS (Denotes Required Fields Where Applicable)
Southwest
Northwest
St. Johns River
South Florida
Suwannee River
DEP
Delegated Authority (If Applicable)

Date Stamp
Official Use Only

1. Permit Number 1378208 CUP/WUP Number DID Number 62-524 Delineation No.

2. Number of permitted wells constructed, repaired, or abandoned 1 Number of permitted wells not constructed, repaired, or abandoned 0

3. Owner's Name Omni Waste of Osceola County, LLC 4. Completion Date 11-11-2011 5. Florida Unique ID

6. JEA Solid Waste Disposal Facility 1501 Omni Way St. Cloud, FL 34773
Well Location - Address, Road Name or Number, City, ZIP

7. County Osceola Section 11 Land Grant Township 28S Range 32E

8. Latitude Longitude

9. Data Obtained From: GPS Map Survey Datum: NAD 27 NAD 83 WGS 84

10. Type of Work: Construction Repair Modification Abandonment

11. Specify Intended Use(s) of Well(s):
Domestic Landscape Irrigation Agricultural Irrigation Site Investigation
Bottled Water Supply Recreation Area Irrigation Livestock Monitoring
Public Water Supply (Limited Use/DOH) Nursery Irrigation Test
Public Water Supply (Community or Non-Community/DEP) Commercial/Industrial Earth-Coupled Geothermal
Class I Injection Golf Course Irrigation HVAC Supply
HVAC Return

Class V Injection: Recharge Commercial/Industrial Disposal Aquifer Storage and Recovery Drainage

Remediation: Recovery Air Sparge Other (Describe)
Other (Describe)

12. Drill Method: Auger Cable Tool Rotary Combination (Two or More Methods) Jetted Sonic
Horizontal Drilling Hydraulic Point (Direct Push) Other Abandonment

13. Measured Static Water Level 6 ft. Measured Pumping Water Level N/A ft. After Hours at GPM

14. Measuring Point (Describe) Ground Surface Which is 0 ft. Above Below Land Surface Flowing: Yes No

15. Casing Material: Black Steel Galvanized PVC Stainless Steel Not Cased Other

16. Total Well Depth 65 ft. Cased Depth ft. Open Hole: From N/A To ft. Screen: From To ft. Slot Size

17. Abandonment: Other (Explain)
From 0 ft. To 65 ft. No. of Bags 1 Seal Material (Check One): Neat Cement Bentonite Other
From ft. To ft. No. of Bags Seal Material (Check One): Neat Cement Bentonite Other
From ft. To ft. No. of Bags Seal Material (Check One): Neat Cement Bentonite Other
From ft. To ft. No. of Bags Seal Material (Check One): Neat Cement Bentonite Other
From ft. To ft. No. of Bags Seal Material (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
Dia in. From ft. To ft. No. of Bags Seal Material (Check One): Neat Cement Bentonite Other

19. Primary Casing Diameter and Depth:
Dia in. From ft. To ft. No. of Bags Seal Material (Check One): Neat Cement Bentonite Other
Dia in. From ft. To ft. No. of Bags Seal Material (Check One): Neat Cement Bentonite Other
Dia in. From ft. To ft. No. of Bags Seal Material (Check One): Neat Cement Bentonite Other
Dia in. From ft. To ft. No. of Bags Seal Material (Check One): Neat Cement Bentonite Other
Dia in. From ft. To ft. No. of Bags Seal Material (Check One): Neat Cement Bentonite Other

20. Liner Casing Diameter and Depth:
Dia in. From ft. To ft. No. of Bags Seal Material (Check One): Neat Cement Bentonite Other
Dia in. From ft. To ft. No. of Bags Seal Material (Check One): Neat Cement Bentonite Other
Dia in. From ft. To ft. No. of Bags Seal Material (Check One): Neat Cement Bentonite Other

21. Telescope Casing Diameter and Depth:
Dia in. From ft. To ft. No. of Bags Seal Material (Check One): Neat Cement Bentonite Other
Dia in. From ft. To ft. No. of Bags Seal Material (Check One): Neat Cement Bentonite Other
Dia in. From ft. To ft. No. of Bags Seal Material (Check One): Neat Cement Bentonite Other

22. Pump Type (If Known): NONE
Centrifugal Jet Submersible Turbine
Horsepower Pump Capacity (GPM)
Pump Depth ft. Intake Depth ft.
23. Chemical Analysis (When Required): N/A
Iron ppm Sulfate ppm Chloride ppm
Laboratory Test Field Test Kit

24. Water Well Contractor:
Contractor Name Ross Chimard License Number 11093 E-mail Address netross@tampabay.rr.com
Contractor's Signature Driller's Name (Print or Type) Greg Waxel

SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT
 2379 BROAD STREET, BROOKSVILLE, FL 34604-6899
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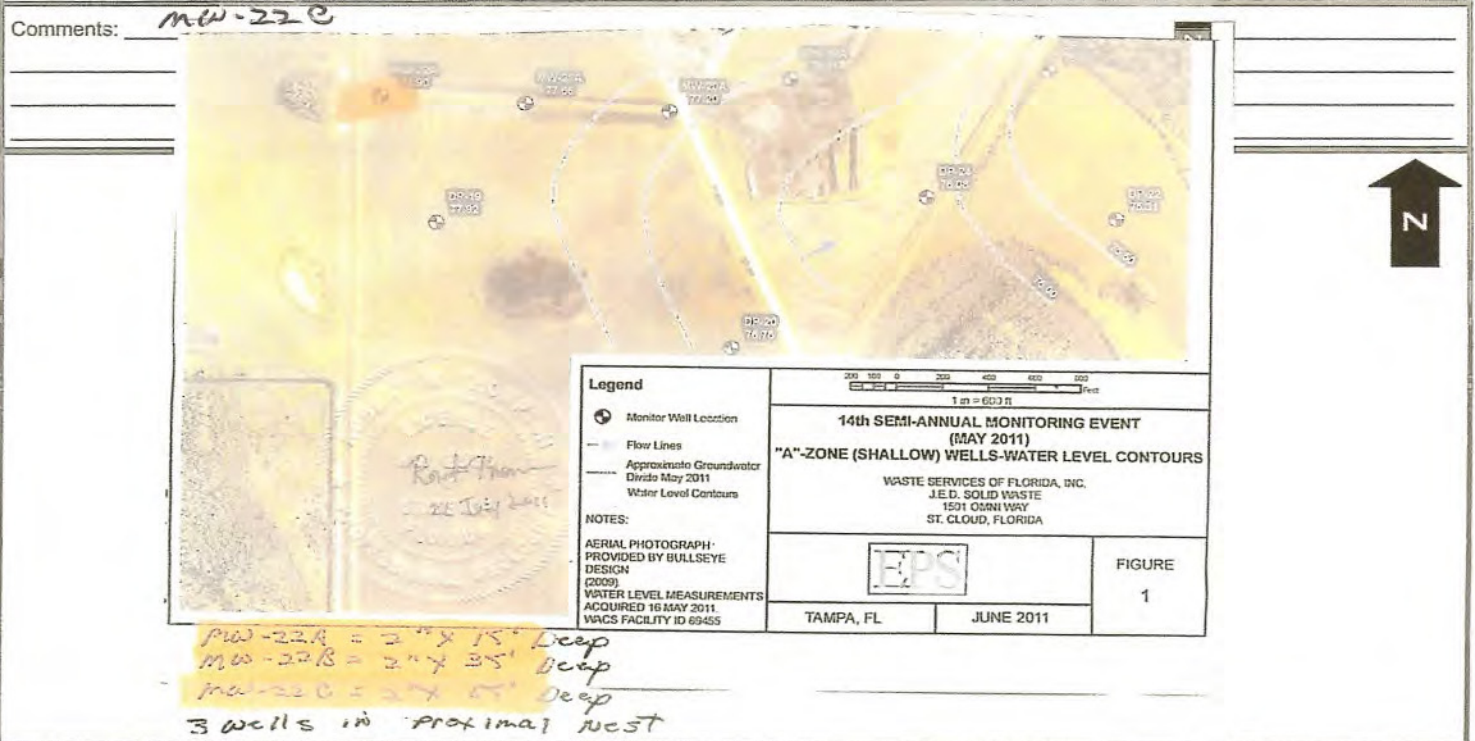
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*DRILL CUTTINGS LOG (Examine cuttings every 20 ft. or at formation changes. Note cavities and depth to producing zone. Grain Size: F=Fine, M=Medium, and C=Coarse)						
From <u>0</u>	ft.	To <u>65</u>	ft.	Color _____	Grain Size (F, M, C) _____	Material <u>Abandonment</u>
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.	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.	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.	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 _____





STATE OF FLORIDA WELL COMPLETION REPORT

- Southwest
- Northwest
- St. Johns River
- South Florida
- Suwannee River
- DEP
- Delegated Authority (If Applicable) _____

PLEASE, FILL OUT ALL APPLICABLE FIELDS
(Denotes Required Fields Where Applicable)

Date Stamp

Official Use Only

MW-22 RA

1. Permit Number 49 WP 1394187 CUP/WUP Number _____ DID Number _____ 62-524 Delineation No. _____

2. Number of permitted wells constructed, repaired, or abandoned 1 Number of permitted wells not constructed, repaired, or abandoned 0

3. Owner's Name Omni Waste of Osceola County, LLC 4. Completion Date 3-16-2013 Florida Unique ID _____

6. JED Solid Waste Disposal Facility 1501 Omni Way, St. Cloud, FL 34773
Well Location - Address, Road Name or Number, City, ZIP

7. County Osceola Section 11 Land Grant _____ Township 28S Range 32E

8. Latitude _____ Longitude _____ Datum: _____ NAD 27 _____ NAD 83 _____ WGS 84

9. Data Obtained From: GPS Map Survey

10. Type of Work: Construction Repair Modification Abandonment

11. Specify Intended Use(s) of Well(s):
 Domestic Landscape Irrigation Agricultural Irrigation Site Investigation
 Bottled Water Supply Recreation Area Irrigation Livestock Monitoring
 Public Water Supply (Limited Use/DOH) Nursery Irrigation Test
 Public Water Supply (Community or Non-Community/DEP) Commercial/Industrial Earth-Coupled Geothermal
 Class I Injection Golf Course Irrigation HVAC Supply
 HVAC Return
 Class V Injection: Recharge Commercial/Industrial Disposal Aquifer Storage and Recovery Drainage
 Remediation: Recovery Air Sparging Other (Describe) _____
 Other (Describe) _____

12. Drill Method: Auger Cable Tool Rotary Combination (Two or More Methods) Jetted Sonic
 Horizontal Drilling Hydraulic Point (Direct Push) Other _____

13. Measured Static Water Level 8 ft. Measured Pumping Water Level 12 ft. After 0.5 Hours at 4 GPM

14. Measuring Point (Describe) Ground Surface Which is 0 ft. Above Below Land Surface Flowing: Yes No

15. Casing Material: Black Steel Galvanized PVC Stainless Steel Not Cased Other _____

16. Total Well Depth _____ ft. Cased Depth _____ ft. Open Hole: From _____ To _____ ft. Screen: From _____ To _____ ft. Slot Size _____

17. Abandonment: _____ Other (Explain) _____
 From _____ ft. To _____ ft. No. of Bags _____ Seal Material (Check One): Neat Cement Bentonite Other _____
 From _____ ft. To _____ ft. No. of Bags _____ Seal Material (Check One): Neat Cement Bentonite Other _____
 From _____ ft. To _____ ft. No. of Bags _____ Seal Material (Check One): Neat Cement Bentonite Other _____
 From _____ ft. To _____ ft. No. of Bags _____ Seal Material (Check One): Neat Cement Bentonite Other _____
 From _____ ft. To _____ ft. No. of Bags _____ Seal Material (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 _____
 Dia _____ in. From _____ ft. To _____ ft. No. of Bags _____ Seal Material (Check One): Neat Cement Bentonite Other _____

19. Primary Casing Diameter and Depth:
 Dia 2 in. From 0 ft. To 10 ft. No. of Bags 1 Seal Material (Check One): Neat Cement Bentonite Other _____
 Dia _____ in. From _____ ft. To _____ ft. No. of Bags _____ Seal Material (Check One): Neat Cement Bentonite Other _____
 Dia _____ in. From _____ ft. To _____ ft. No. of Bags _____ Seal Material (Check One): Neat Cement Bentonite Other _____
 Dia _____ in. From _____ ft. To _____ ft. No. of Bags _____ Seal Material (Check One): Neat Cement Bentonite Other _____
 Dia _____ in. From _____ ft. To _____ ft. No. of Bags _____ Seal Material (Check One): Neat Cement Bentonite Other _____

20. Screen Liner Casing Diameter and Depth:
 Dia 2 in. From 10 ft. To 20 ft. No. of Bags 7 Seal Material (Check One): Neat Cement Bentonite Other Sand
 Dia _____ in. From _____ ft. To _____ ft. No. of Bags _____ Seal Material (Check One): Neat Cement Bentonite Other _____
 Dia _____ in. From _____ ft. To _____ ft. No. of Bags _____ Seal Material (Check One): Neat Cement Bentonite Other _____

21. Telescope Casing Diameter and Depth:
 Dia _____ in. From _____ ft. To _____ ft. No. of Bags _____ Seal Material (Check One): Neat Cement Bentonite Other _____
 Dia _____ in. From _____ ft. To _____ ft. No. of Bags _____ Seal Material (Check One): Neat Cement Bentonite Other _____
 Dia _____ in. From _____ ft. To _____ ft. No. of Bags _____ Seal Material (Check One): Neat Cement Bentonite Other _____

22. Pump Type (If Known): NONE
 Centrifugal Jet Submersible Turbine
 Horsepower _____ Pump Capacity (GPM) _____
 Pump Depth _____ ft. Intake Depth _____ ft. Laboratory Test _____ Field Test Kit _____

23. Chemical Analysis (When Required): N/A
 Iron _____ ppm Sulfate _____ ppm Chloride _____ ppm

24. Water Well Contractor:
 Contractor Name Ross Chivander License Number 11093 E-mail Address netross@tampabay.fl.com
 Contractor's Signature _____ Driller's Name (Print or Type) Greg Waxci

(I certify that the information provided in this report is accurate and true.)

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
WWW.NWFWMD.STATE.FL.US

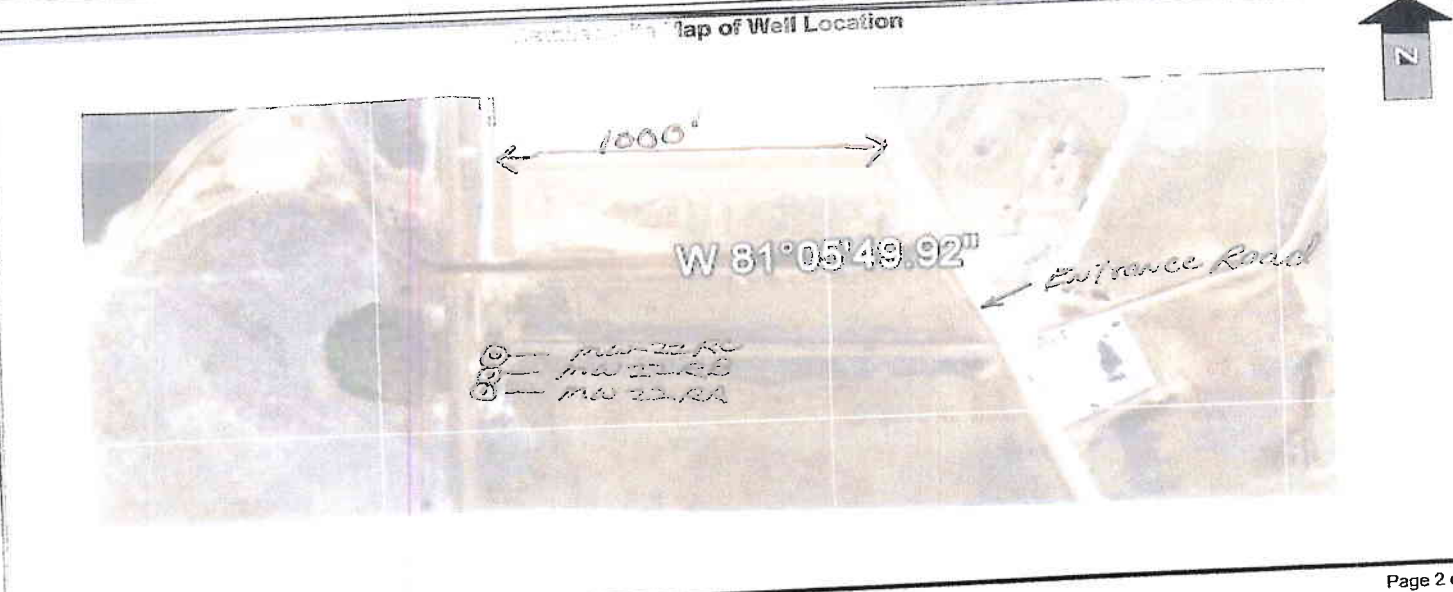
SOUTH FLORIDA WATER MANAGEMENT DISTRICT
P.O. BOX 24680
3301 GUN CLUB ROAD
WEST PALM BEACH, FL 33416-4680
PHONE: (561) 686-8800
WWW.SFWMD.GOV

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

DRILL CUTTINGS LOG (Examine cuttings every 20 ft. or at formation changes. Note cavities and depth to producing zone. Grain Size: F=Fine, M=Medium, and C=Coarse)

From	ft.	To	ft.	Color	Grain Size (F, M, C)	Material
From	0	To	20	Dark Brown	Fine	Sand
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.	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.	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.	To	ft.	Color	Grain Size (F, M, C)	Material

Comments: Installation of 1-2" Dia. Monitoring Well To 20'
(In Nest of 3) MW-22RA



STATE OF FLORIDA WELL COMPLETION REPORT

Date Stamp

- Southwest
- Northwest
- St. Johns River
- South Florida
- Suwannee River
- DEP
- Delegated Authority (If Applicable) MW-32RB

PLEASE, FILL OUT ALL APPLICABLE FIELDS
(Denotes Required Fields Where Applicable)

Official Use Only

1. Permit Number 49 WP 1394187 CUP/WUP Number _____ DID Number _____ 62-524 Delineation No. _____

2. Number of permitted wells constructed, repaired, or abandoned 1 Number of permitted wells not constructed, repaired, or abandoned 0

3. Owner's Name Omni Waste of Osceola County, LLC 4. Completion Date 3-16-2013 Florida Unique ID _____

6. JED Solid Waste Disposal Facility 1501 Omni Way, St. Cloud, FL 34713
Well Location - Address, Road Name or Number, City, ZIP

7. County Osceola Section 11 Land Grant _____ Township 28S Range 32E

8. Latitude _____ Longitude _____ Datum: NAD 27 NAD 83 WGS 84

9. Data Obtained From: GPS Map Survey

10. Type of Work: Construction Repair Modification Abandonment

11. Specify Intended Use(s) of Well(s):
 Domestic Landscape Irrigation Agricultural Irrigation Site Investigation
 Bottled Water Supply Recreation Area Irrigation Livestock Monitoring
 Public Water Supply (Limited Use/DOH) Nursery Irrigation Test
 Public Water Supply (Community or Non-Community/DEP) Commercial/Industrial Earth-Coupled Geothermal
 Class I Injection Golf Course Irrigation HVAC Supply
 Class V Injection: Recharge Commercial/Industrial Disposal Aquifer Storage and Recovery Drainage
 Remediation: Recovery Air Sparging Other (Describe) _____
 Other (Describe) _____

12. Drill Method: Auger Cable Tool Rotary Combination (Two or More Methods) Jetted Sonic
 Horizontal Drilling Hydraulic Point (Direct Push) Other

13. Measured Static Water Level 8 ft. Measured Pumping Water Level 12 ft. After 0.5 Hours at 4 GPM

14. Measuring Point (Describe) Ground Surface Which is 0 ft. Above Below Land Surface Flowing: Yes No

15. Casing Material: Black Steel Galvanized PVC Stainless Steel Not Cased Other

16. Total Well Depth _____ ft. Cased Depth _____ ft. Open Hole: From _____ To _____ ft. Screen: From _____ To _____ ft. Slot Size _____

17. Abandonment: Other (Explain) _____
 From 0 ft. To 33 ft. No. of Bags _____ Seal Material (Check One): Neat Cement Bentonite Other
 From _____ ft. To _____ ft. No. of Bags _____ Seal Material (Check One): Neat Cement Bentonite Other
 From _____ ft. To _____ ft. No. of Bags _____ Seal Material (Check One): Neat Cement Bentonite Other
 From _____ ft. To _____ ft. No. of Bags _____ Seal Material (Check One): Neat Cement Bentonite Other
 From _____ ft. To _____ ft. No. of Bags _____ Seal Material (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
 Dia _____ in. From _____ ft. To _____ ft. No. of Bags _____ Seal Material (Check One): Neat Cement Bentonite Other

19. Primary Casing Diameter and Depth:
 Dia 2 in. From 33 ft. To _____ ft. No. of Bags _____ Seal Material (Check One): Neat Cement Bentonite Other
 Dia 2 in. From 0 ft. To 33 ft. No. of Bags 8 Seal Material (Check One): Neat Cement Bentonite Other
 Dia _____ in. From _____ ft. To _____ ft. No. of Bags _____ Seal Material (Check One): Neat Cement Bentonite Other
 Dia _____ in. From _____ ft. To _____ ft. No. of Bags _____ Seal Material (Check One): Neat Cement Bentonite Other
 Dia _____ in. From _____ ft. To _____ ft. No. of Bags _____ Seal Material (Check One): Neat Cement Bentonite Other

20. Screen Linear Casing Diameter and Depth:
 Dia 2 in. From 33 ft. To 43 ft. No. of Bags 6 Seal Material (Check One): Neat Cement Bentonite Other sand
 Dia _____ in. From _____ ft. To _____ ft. No. of Bags _____ Seal Material (Check One): Neat Cement Bentonite Other
 Dia _____ in. From _____ ft. To _____ ft. No. of Bags _____ Seal Material (Check One): Neat Cement Bentonite Other

21. Telescope Casing Diameter and Depth:
 Dia _____ in. From _____ ft. To _____ ft. No. of Bags _____ Seal Material (Check One): Neat Cement Bentonite Other
 Dia _____ in. From _____ ft. To _____ ft. No. of Bags _____ Seal Material (Check One): Neat Cement Bentonite Other
 Dia _____ in. From _____ ft. To _____ ft. No. of Bags _____ Seal Material (Check One): Neat Cement Bentonite Other

22. Pump Type (If Known): NONE Centrifugal Jet Submersible Turbine
 Horsepower _____ Pump Capacity (GPM) _____
 Pump Depth _____ ft. Intake Depth _____ ft.

23. Chemical Analysis (When Required): N/A
 Iron _____ ppm Sulfate _____ ppm Chloride _____ ppm
 Laboratory Test _____ Field Test Kit _____

24. Water Well Contractor:
 Contractor Name Ross Chinnader License Number 11093 E-mail Address netrosse@tampabay.fl.com
 Contractor's Signature [Signature] Driller's Name (Print or Type) Greg Waxel

(I certify that the information provided in this report is accurate and true.)

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

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

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

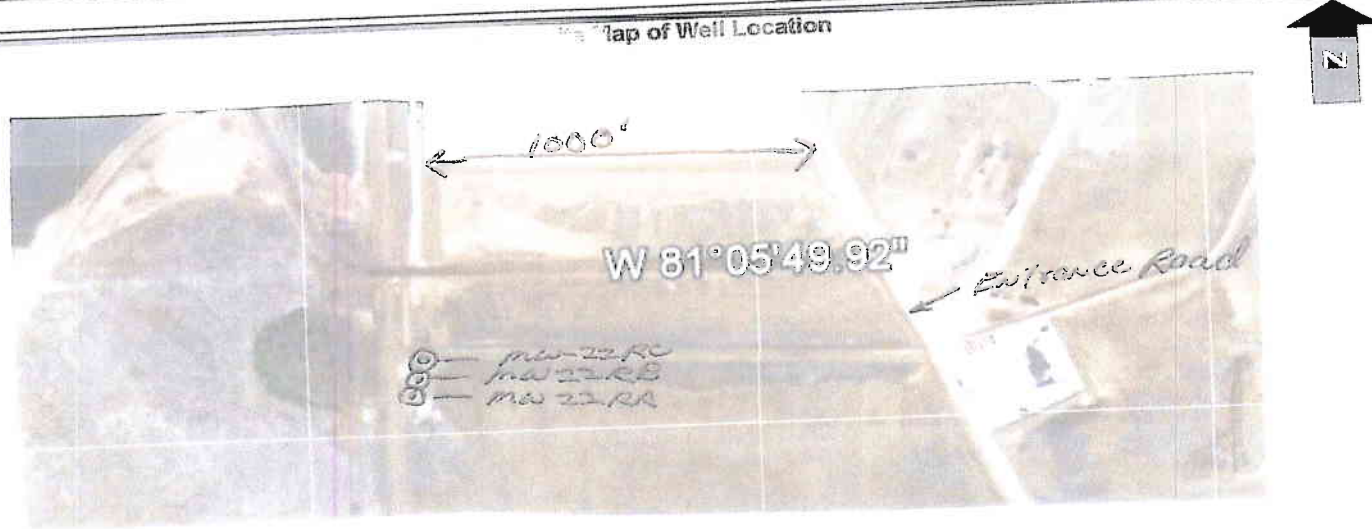
SUWANNEE RIVER WATER MANAGEMENT DISTRICT
 9225 CR 49
 LIVE OAK, FL 32060
 PHONE: (386) 362-1001 or (800) 226-1066 (Florida only)
 WWW.MYSUWANNEERIVER.COM

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
 WWW.NFWMD.STATE.FL.US

DRILL CUTTINGS LOG (Examine cuttings every 20 ft. or at formation changes. Note cavities and depth to producing zone. Grain Size: F=Fine, M=Medium, and C=Coarse)

From	ft.	To	ft.	Color	Grain Size (F, M, C)	Material
From	0	To	43	Dark Brown	Fine	Sand
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.	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.	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.	To	ft.	Color	Grain Size (F, M, C)	Material
From	ft.	To	ft.	Color	Grain Size (F, M, C)	Material

Comments: Installation of 1-2" Dia. Monitoring Well To 43'
(To Next of 3) MW-22RB



STATE OF FLORIDA WELL COMPLETION REPORT

Date Stamp

- Southwest
- Northwest
- St. Johns River
- South Florida
- Suwannee River
- DEP
- Delegated Authority (If Applicable) MW-22RC

PLEASE, FILL OUT ALL APPLICABLE FIELDS
(Denotes Required Fields Where Applicable)

Official Use Only

1. Permit Number 49 WP 1394187 CUP/WUP Number _____ DID Number _____ 62-524 Delineation No. _____
 2. Number of permitted wells constructed, repaired, or abandoned 1 Number of permitted wells not constructed, repaired, or abandoned 0

3. Owner's Name Omni Waste of Osceola County, LLC 4. Completion Date 3-16-2013 Florida Unique ID _____

6. JEO Solid Waste Disposal Facility 1501 Omni Way, St. Cloud, FL 34713
 Well Location - Address, Road Name or Number, City, ZIP

7. County Osceola Section 11 Land Grant _____ Township 28S Range 32E

8. Latitude _____ Longitude _____ Datum: NAD 27 NAD 83 WGS 84
 9. Data Obtained From: GPS Map Survey

10. Type of Work: Construction Repair Modification Abandonment
 11. Specify Intended Use(s) of Well(s):
 Domestic _____ Landscape Irrigation _____ Agricultural Irrigation _____ Site Investigation _____
 Bottled Water Supply _____ Recreation Area Irrigation _____ Livestock _____ Monitoring
 Public Water Supply (Limited Use/DOH) _____ Nursery Irrigation _____ Test _____
 Public Water Supply (Community or Non-Community/DEP) _____ Commercial/Industrial _____ Earth-Coupled Geothermal _____
 Class I Injection _____ Golf Course Irrigation _____ HVAC Supply _____
 Class V Injection: _____ Recharge _____ Commercial/Industrial Disposal _____ Aquifer Storage and Recovery _____ Drainage _____
 Remediation: _____ Recovery _____ Air Sparging _____ Other (Describe) _____
 Other (Describe) _____

12. Drill Method: Auger Cable Tool Rotary Combination (Two or More Methods) Jetted Sonic
 Horizontal Drilling Hydraulic Point (Direct Push) Other

13. Measured Static Water Level 8 ft. Measured Pumping Water Level 12 ft. After 0.5 Hours at 7 GPM
 14. Measuring Point (Describe) Ground Surface Which is 0 ft. Above Below Land Surface Flowing: Yes No

15. Casing Material: Galvanized PVC Stainless Steel Not Cased Other
 16. Total Well Depth _____ ft. Cased Depth _____ ft. Open Hole: From _____ To _____ ft. Screen: From _____ To _____ ft. Slot Size _____

17. Abandonment: _____ Other (Explain) _____
 From _____ ft. To _____ ft. No. of Bags _____ Seal Material (Check One): Neat Cement Bentonite Other
 From _____ ft. To _____ ft. No. of Bags _____ Seal Material (Check One): Neat Cement Bentonite Other
 From _____ ft. To _____ ft. No. of Bags _____ Seal Material (Check One): Neat Cement Bentonite Other
 From _____ ft. To _____ ft. No. of Bags _____ Seal Material (Check One): Neat Cement Bentonite Other
 From _____ ft. To _____ ft. No. of Bags _____ Seal Material (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
 Dia _____ in. From _____ ft. To _____ ft. No. of Bags _____ Seal Material (Check One): Neat Cement Bentonite Other

19. Primary Casing Diameter and Depth:
 Dia 2 in. From 0 ft. To 55 ft. No. of Bags 14 Seal Material (Check One): Neat Cement Bentonite Other
 Dia _____ in. From _____ ft. To _____ ft. No. of Bags _____ Seal Material (Check One): Neat Cement Bentonite Other
 Dia _____ in. From _____ ft. To _____ ft. No. of Bags _____ Seal Material (Check One): Neat Cement Bentonite Other
 Dia _____ in. From _____ ft. To _____ ft. No. of Bags _____ Seal Material (Check One): Neat Cement Bentonite Other
 Dia _____ in. From _____ ft. To _____ ft. No. of Bags _____ Seal Material (Check One): Neat Cement Bentonite Other

20. Scraper Liner Casing Diameter and Depth:
 Dia 2 in. From 55 ft. To 65 ft. No. of Bags 8 Seal Material (Check One): Neat Cement Bentonite Other
 Dia _____ in. From _____ ft. To _____ ft. No. of Bags _____ Seal Material (Check One): Neat Cement Bentonite Other
 Dia _____ in. From _____ ft. To _____ ft. No. of Bags _____ Seal Material (Check One): Neat Cement Bentonite Other
 Dia _____ in. From _____ ft. To _____ ft. No. of Bags _____ Seal Material (Check One): Neat Cement Bentonite Other

21. Telescope Casing Diameter and Depth:
 Dia _____ in. From _____ ft. To _____ ft. No. of Bags _____ Seal Material (Check One): Neat Cement Bentonite Other
 Dia _____ in. From _____ ft. To _____ ft. No. of Bags _____ Seal Material (Check One): Neat Cement Bentonite Other
 Dia _____ in. From _____ ft. To _____ ft. No. of Bags _____ Seal Material (Check One): Neat Cement Bentonite Other

22. Pump Type (If Known): None Centrifugal Jet Submersible Turbine
 Horsepower _____ Pump Capacity (GPM) _____
 Pump Depth _____ ft. Intake Depth _____ ft.
 23. Chemical Analysis (When Required): N/A
 Iron _____ ppm Sulfate _____ ppm Chloride _____ ppm
 Laboratory Test _____ Field Test Kit _____

24. Water Well Contractor:
 Contractor Name Ross Chivander License Number 11093 E-mail Address notross@tampabay.fl.gov

Contractor's Signature _____ Driller's Name (Print or Type) Greg Waycl

(I certify that the information provided in this report is accurate and true.)

SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT
 2379 BROAD STREET, BROOKSVILLE, FL 34604-6899
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 152 WATER MANAGEMENT DR., HAVANA, FL 32333-4712
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SOUTH FLORIDA WATER MANAGEMENT DISTRICT
 P.O. BOX 24680
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 WEST PALM BEACH, FL 33416-4680
 PHONE: (561) 686-8800
 WWW.SFWMD.GOV

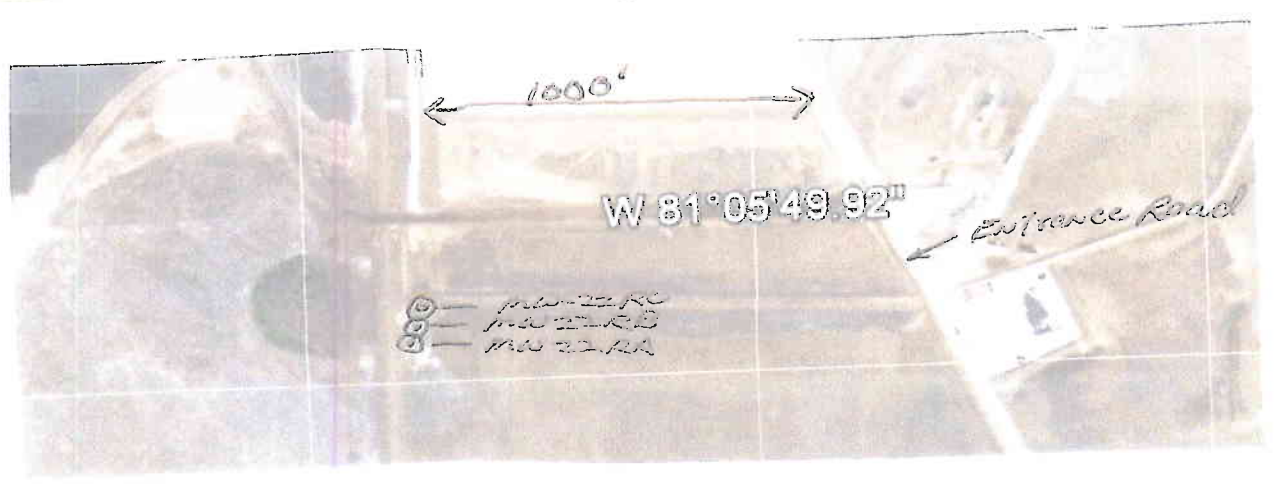
SUWANNEE RIVER WATER MANAGEMENT DISTRICT
 9225 CR 49
 LIVE OAK, FL 32060
 PHONE: (386) 362-1001 or (800) 226-1066 (Florida only)
 WWW.MYSUWANNEERIVER.COM

DRILL CUTTINGS LOG (Examine cuttings every 20 ft. or at formation changes. Note cavities and depth to producing zone. Grain Size: F=Fine, M=Medium, and C=Coarse)

From	ft.	To	ft.	Color	Grain Size (F, M, C)	Material
From	0	To	65	Color <u>DARK BROWN</u>	Grain Size (F, M, C) <u>FINE</u>	Material <u>SAND</u>
From		To		Color	Grain Size (F, M, C)	Material
From		To		Color	Grain Size (F, M, C)	Material
From		To		Color	Grain Size (F, M, C)	Material
From		To		Color	Grain Size (F, M, C)	Material
From		To		Color	Grain Size (F, M, C)	Material
From		To		Color	Grain Size (F, M, C)	Material
From		To		Color	Grain Size (F, M, C)	Material
From		To		Color	Grain Size (F, M, C)	Material
From		To		Color	Grain Size (F, M, C)	Material
From		To		Color	Grain Size (F, M, C)	Material
From		To		Color	Grain Size (F, M, C)	Material
From		To		Color	Grain Size (F, M, C)	Material
From		To		Color	Grain Size (F, M, C)	Material
From		To		Color	Grain Size (F, M, C)	Material
From		To		Color	Grain Size (F, M, C)	Material
From		To		Color	Grain Size (F, M, C)	Material
From		To		Color	Grain Size (F, M, C)	Material
From		To		Color	Grain Size (F, M, C)	Material
From		To		Color	Grain Size (F, M, C)	Material
From		To		Color	Grain Size (F, M, C)	Material
From		To		Color	Grain Size (F, M, C)	Material
From		To		Color	Grain Size (F, M, C)	Material
From		To		Color	Grain Size (F, M, C)	Material
From		To		Color	Grain Size (F, M, C)	Material

Comments: Installation of 1-2" Dia. Monitoring Well To 65'
(In Nest of 3) MW-22RC

Map of Well Location



49601394187



STATE OF FLORIDA PERMIT APPLICATION TO CONSTRUCT, REPAIR, MODIFY, OR ABANDON A WELL

- PLEASE FILL OUT ALL APPLICABLE FIELDS (Denotes Required Fields Where Applicable)
The water well contractor is responsible for completing this form and forwarding the permit application to the appropriate delegated authority where applicable.
Southwest, Northwest, St. Johns River, South Florida, Suwannee River, DEP, Delegated Authority (If Applicable)

Permit No., Florida Unique ID, Permit Stipulations Required (See Attached), 62-524 Quad No., Definition No., CUP/WUP Application No., ABOVE THIS LINE - FOR OFFICIAL USE ONLY

1. Owner, Legal Name If Corporation: Omni Waste of Osceola County LLC, 3203 Bellair Blvd, Houston TX 77025 (613) 418-2007
2. Well Location - Address, Road Name or Number, City: 1501 Omni Way, St. Cloud FL 34773
3. Parcel ID No. (PIN) or Alternate Key (Circle One): 11-28-32 000000100000
4. Section or Land Grant, Township, Range, County, Subdivision: 11, 28S, 32E, Osceola, MetroSSO
5. Water Well Contractor, License Number, Telephone Number, E-mail Address: Ross Chivander, 11093, (813) 655-3612, tamara.bayliff.com
6. Water Well Contractor's Address, City, State, ZIP: 12435 Jess Walden Road, Dover FL 33527
7. Type of Work: Construction, Repair, Modification, Abandonment
8. Number of Proposed Wells: 3
9. Specify Intended Use(s) of Well(s): Domestic, Land-scaped Irrigation, Agricultural Irrigation, Site Investigation, Boiled Water Supply, Recreation Area Irrigation, Livestock, Monitoring, Public Water Supply (Limited Use/DOH), Nursery Irrigation, Test, Public Water Supply (Community or Non-Community/DEP), Commercial/Industrial, Earth-Coupled Geothermal, Class I Injection, Golf Course Irrigation, HVAC Supply, HVAC Return
10. Distance from Septic System If <= 200 ft: N/A
11. Facility Description: Landfill
12. Estimated Start Date: 2-23-2011
13. Estimated Well Depth: 75 ft, Estimated Casing Depth: 65 ft, Primary Casing Diameter: 2 in, Open Hole: From 118 to 118 ft
14. Estimated Screen Interval: From 0 to 0 ft
15. Primary Casing Material: Black Steel, Galvanized, PVC, Stainless Steel
16. Secondary Casing: N/A Telescope Casing, Liner, Surface Casing, Diameter: in
17. Secondary Casing Material: N/A Black Steel, Galvanized, PVC, Stainless Steel, Other
18. Method of Construction, Repair, or Abandonment: Auger, Cable Tool, Jetted, Rotary, Sonic, Combination (Two or More Methods), Hand Driven (Well Point, Sand Point), Hydraulic Point (Direct Push), Horizontal Drilling, Plugged by Approved Method, Other (Describe)
19. Proposed Grouting Interval for the Primary, Secondary, and Additional Casing: From 0 to 60 Seal Material (Bentonite, Neat Cement, Other)
20. Indicate total number of existing wells on site: List number of existing unused wells on site
21. Is this well or any existing well or water withdrawal on the owner's contiguous property covered under a Consumptive Water Use Permit (CUP/WUP) or CUP/WUP Application? Yes No If yes, complete the following: CUP/WUP No., District Well ID No.
22. Latitude, Longitude
23. Data Obtained From: GPS, Map, Survey Datum: NAD 27, NAD 83, WGS 84

Signature of Contractor: [Signature], License No.: 11093, Signature of Owner or Agent: [Signature], Date: 2-20-2011
Approval Granted By: [Signature], Issue Date: 2-20-12, Expiration Date, Hydrologist Approval: [Signature]
Fee Received \$: 225, Receipt No., Check No.: CC

THIS PERMIT IS NOT VALID UNTIL PROPERLY SIGNED BY AN AUTHORIZED OFFICER OR REPRESENTATIVE OF THE WMD OR DELEGATED AUTHORITY. THE PERMIT SHALL BE AVAILABLE AT THE WELL SITE DURING ALL CONSTRUCTION, REPAIR, MODIFICATION, OR ABANDONMENT ACTIVITIES.
DEP Form: 62-532.800(1) Incorporated in 62-532.400(1), F.A.C. Effective Date: October 7, 2010 Page 1 of 2

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
 WWW.NWFWMD.STATE.FL.US

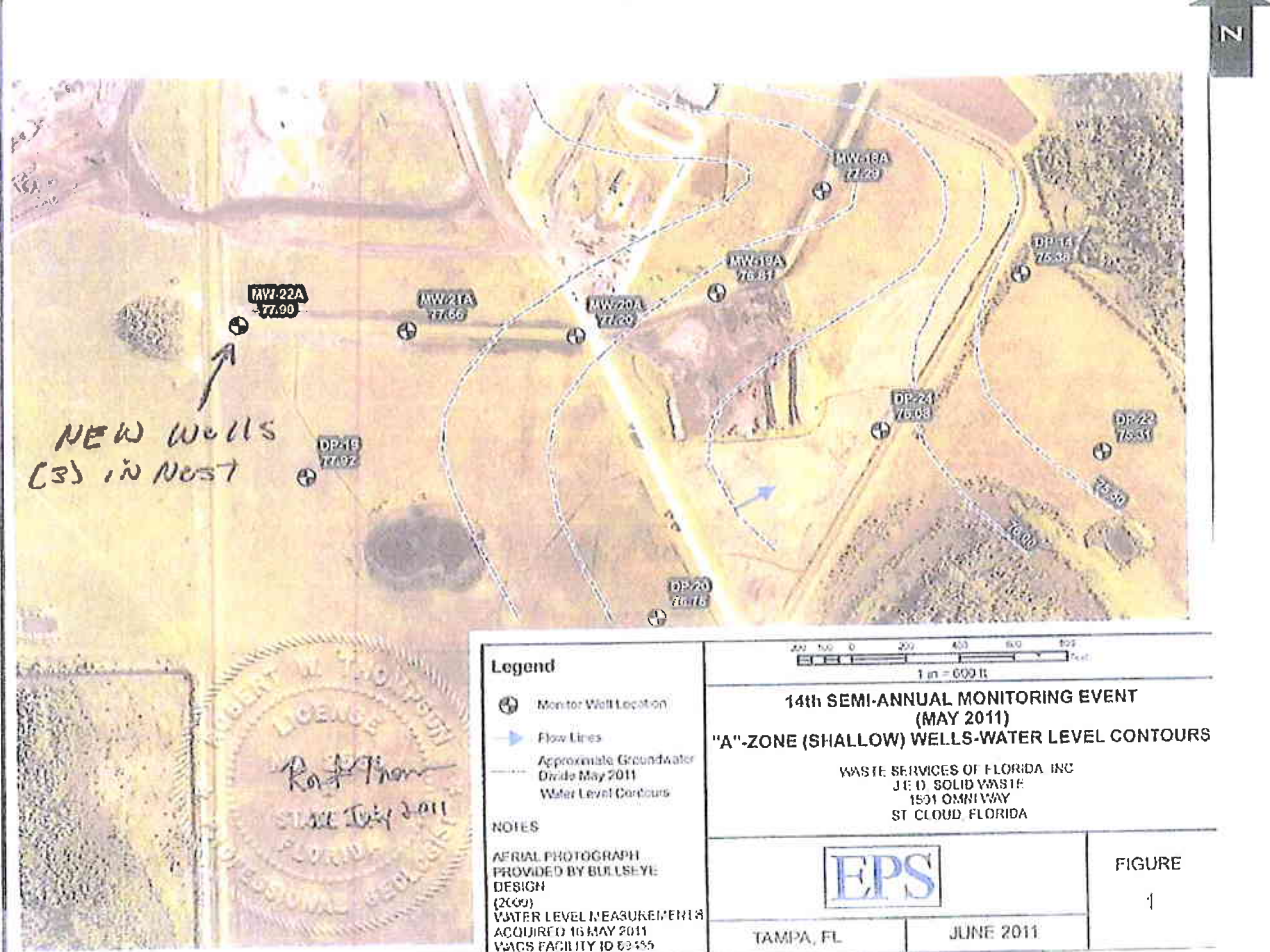
SOUTH FLORIDA WATER MANAGEMENT DISTRICT
 P.O. BOX 24680
 3301 GUN CLUB ROAD
 WEST PALM BEACH, FL 33416-4680
 PHONE: (561) 686-8800
 WWW.SFWMD.GOV

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

Comments:

Installation of 1-2" x 75' Well MW-22RC
 1-2" x 45' Well MW-22RB
 1-2" x 25' Well MW-22RA
 (3 Wells Total)

General Site Map of Proposed Well Location



BORING LOG

Boring/Well Number: MW-22R C		Permit Number: SC49-0199726-004 & SO49-019972		FDEP Facility Identification Number: 89544	
Site Name: J.E.D. Solid Waste Disposal		Borehole Start Date: 03/15/12	Borehole Start Time: 9:20 <input checked="" type="checkbox"/> AM <input type="checkbox"/> PM		
Facility		End Date: 03/15/12	End Time: 1:15 <input type="checkbox"/> AM <input checked="" type="checkbox"/> PM		
Environmental Contractor:		Geologist's Name:		Environmental Technician's Name:	
Drilling Company: National Env. Technologies		Pavement Thickness (inches): NA	Borehole Diameter (inches): 6		Borehole Depth (feet): 67
Drilling Method(s): Hollow Stem Auger		Apparent Borehole DTW (in feet from soil moisture content): 15	Measured Well DTW (in feet after water recharges in well): 14.92	OVA (list model and check type): NA <input type="checkbox"/> FID <input type="checkbox"/> PID	
Disposition of Drill Cuttings [check method(s)]: <input type="checkbox"/> Drum <input checked="" type="checkbox"/> Spread <input type="checkbox"/> Backfill <input type="checkbox"/> Stockpile <input type="checkbox"/> Other <i>(describe if other or multiple items are checked):</i>					
Borehole Completion (check one): <input checked="" type="checkbox"/> Well <input type="checkbox"/> Grout <input type="checkbox"/> Bentonite <input type="checkbox"/> Backfill <input type="checkbox"/> Other (describe)					

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
				NA	NA	NA	1	Perimeter Berm Fill down to approximately 15' below land surface Sand, brown, fine to med. Started split spoon samples @ 15ft then on 5ft centers.			
							2				
							3				
							4				
							5				
							6				
							7				
							8				
							9				
							10				
							11				
							12				

Sample Type Codes: PH = Post Hole; HA = Hand Auger; SS = Split Spoon; ST = Shelby Tube; DP = Direct Push; SC = Sonic Core; DC = Drill Cuttings
 Moisture Content Codes: D = Dry; M = Moist; W = Wet; S = Saturated

BORING LOG

Boring/Well Number:		FDEP Facility Identification Number:		Site Name:		Borehole Start Date:						
MW-22R C		89544		J.E.D. SWDF		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 Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
SS	15 to 17	24	2 3 4 7	NA	NA	NA	13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	Silty sand, brown, fine	SM	S		
SS	20 to 22	24	4 6 14 20					Silty sand, brown, fine	SM	S		
SS	25 to 27	12	weight of rods 3 3 6					Sand, light brown, fine to med.	SW	S		

Sample Type Codes: PH = Post Hole; HA = Hand Auger; SS = Split Spoon; ST = Shelby Tube; DP = Direct Push; SC = Sonic Core; DC = Drill Cuttings
 Moisture Content Codes: D = Dry; M = Moist; W = Wet; S = Saturated

BORING LOG

Boring/Well Number: MW-22R C		FDEP Facility Identification Number: 89544			Site Name: J.E.D. SWDF		Borehole Start Date: 03/15/12		End Date: 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 Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
SS	30 to 32	24	2 3 4	NA	NA	NA	31	Sand, light brown to 31' then silty sand, brown, fine to med	SW SM	S	
SS	35 to 37	24	2 2 2 2				35	Sand, light brown to 36.5' then silty sand, fine to med	SW SM	S	
SS	40 to 42	24	6 5 3 0				40	Sand, light brown, fine to med	SW	S	
SS	45 to 47	24	4 6 17 23				45	Silty sand, brown, fine. Turns gray in color at 46.5'	SM	S	
							32				
							33				
							34				
							36				
							37				
							38				
							39				
							41				
							42				
							43				
							44				
							46				
							47				
							48				

Sample Type Codes: PH = Post Hole; HA = Hand Auger; SS = Split Spoon; ST = Shelby Tube; DP = Direct Push; SC = Sonic Core; DC = Drill Cuttings
 Moisture Content Codes: D = Dry; M = Moist; W = Wet; S = Saturated

BORING LOG

Boring/Well Number: MW-22R C		FDEP Facility Identification Number: 89544		Site Name: J.E.D. SWDF		Borehole Start Date: 03/15/12		End Date: 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 Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
SS	50 to 52	24	7 5 8 27	NA	NA	NA	49 50 51 52 53 54	silty sand, brown, fine to med	SM	S	
SS	55 to 57	24	4 7 3 5				55 56 57 58 59	silty sand, brown, fine to med	SM	S	
SS	60 to 62	24	5 3 4 5				60 61 62 63 64	silty sand, brown turning olive gray at 61.5'; fine to med	SM	S	
SS	65 to 67	24	9 11				65 66	silty sand w/significant amount of clay, gray to grayish green,	ML	S	

Sample Type Codes: PH = Post Hole; HA = Hand Auger; SS = Split Spoon; ST = Shelby Tube; DP = Direct Push; SC = Sonic Core; DC = Drill Cuttings
 Moisture Content Codes: D = Dry; M = Moist; W = Wet; S = Saturated

BORING LOG

Boring/Well Number: MW-22R C		FDEP Facility Identification Number: 89544			Site Name: J.E.D. SWDF		Borehole Start Date: 03/15/12		End Date: 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 Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
SS	65 to 67	24	7 8	NA	NA	NA	67	fine	ML	S	
							68				
							69				
							70				
							71				
							72				
							73				
							74				
							75				
							76				
							77				
							78				
							79				
							80				
							81				
							82				
							83				
							84				

Sample Type Codes: PH = Post Hole; HA = Hand Auger; SS = Split Spoon; ST = Shelby Tube; DP = Direct Push; SC = Sonic Core; DC = Drill Cuttings
 Moisture Content Codes: D = Dry; M = Moist; W = Wet; S = Saturated

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

WELL CONSTRUCTION LOG ABOVE GROUND COMPLETION

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

Site: J.E.D. Solid Waste Disposal Facility
 Installation Method: Hollow Stem Auger (rig CME75)
 Casing Installation Date: March 14, 2012
 Well Type: monitoring well

Start: 1120
 end: 1315 (filter pack, seal, grout)

Well Completion

Guard Posts (Y / N) Date: March 20, 2012
 Surface Pad Size: 5 ft x 13 ft

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: March 14, 2012
 Type: bentonite
 Source: Wyoben medium chip
 Set-up/Hydration Time: 1 hour
 Placement Method: poured
 Vol. Fluid Added: 3 gallons

Filter Pack

Type: 30/45 sand
 Source: Standard 50# bag
 Amount Used: 6 bags
 Placement Method: poured down auger

Well Riser Pipe

Casing Material: Sch 40 PVC
 Casing Inside Diameters: 2 in.

Screen

Material: Sch 40 PVC
 Inside Diameter: 2 in.
 Screen Slot Size: 0.006 in.

Sump or Bottom Cap (Y / N)
 Type/Length: 0.5 ft sump

Backfill Plug (Y / N)

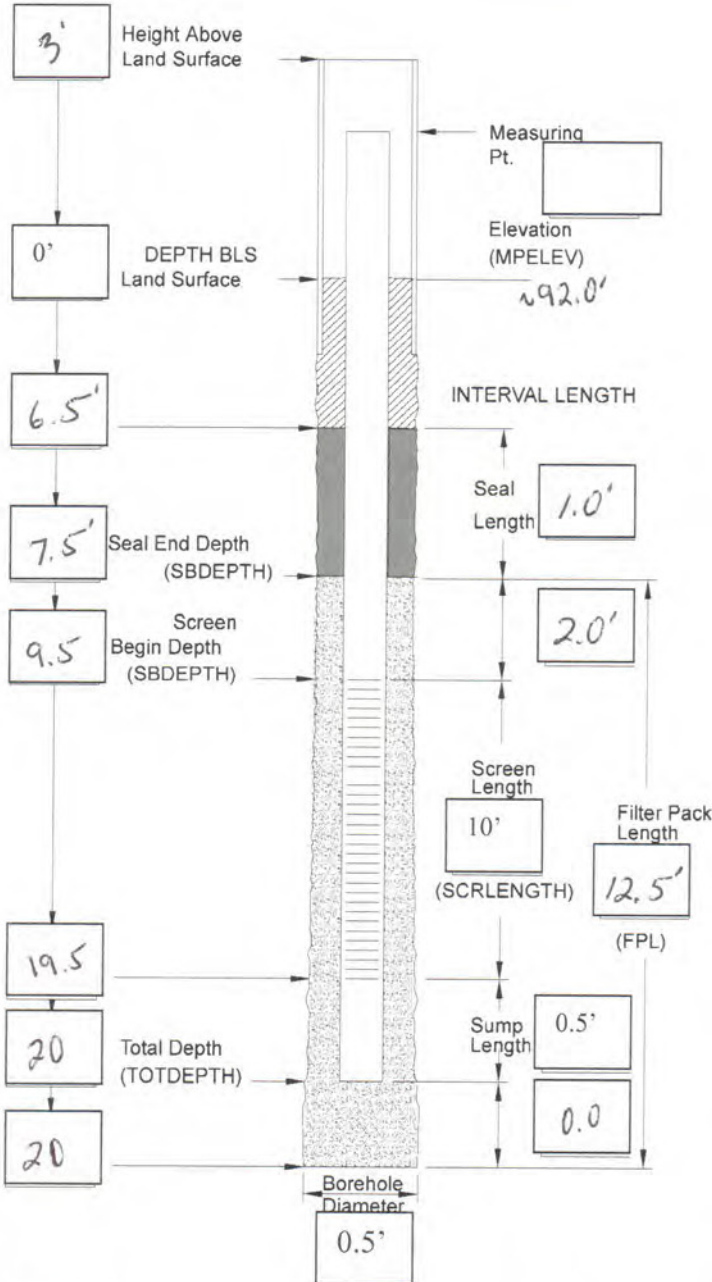
Material: _____
 Placement Method: _____
 Set-up/Hydration Time: _____

Total Water Volume During Construction

Introduced (Gal): _____ Recovered (Gal): _____

Reviewed

By: _____ Date: _____



Comments

silty sand, brown, fine DTW @ 14.10' BTOL
TA: 23.66' BTOL

WELL CONSTRUCTION LOG ABOVE GROUND COMPLETION

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

Site: J.E.D. Solid Waste Disposal Facility
 Installation Method: Hollow Stem Auger (rig CME75)
 Casing Installation Date: March 14th 2012
 Well Type: monitoring well

Start: 1320 on 3-14-12
 end: 1445 worked to 20' BLS
 Start: 1015 on 3-15-12 End: 12:00

Well Completion

Guard Posts (Y / N) Date: March 20, 2012
 Surface Pad Size: 5 ft x 13 ft

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: March 15, 2012
 Type: 30/65 sand
 Source: Standard 50# bag
 Set-up/Hydration Time: NA
 Placement Method: tremie pipe
 Vol. Fluid Added: ~20 gal

Filter Pack

Type: 30/45 sand
 Source: Standard 50# bag
 Amount Used: 6 bags
 Placement Method: tremie pipe

Well Riser Pipe

Casing Material: Sch 40 PVC
 Casing Inside Diameters: 2 in.

Screen

Material: Sch 40 PVC
 Inside Diameter: 2 in.
 Screen Slot Size: 0.006 in.

Sump or Bottom Cap (Y / N)

Type/Length: 0.5 ft sump

Backfill Plug (Y / N)

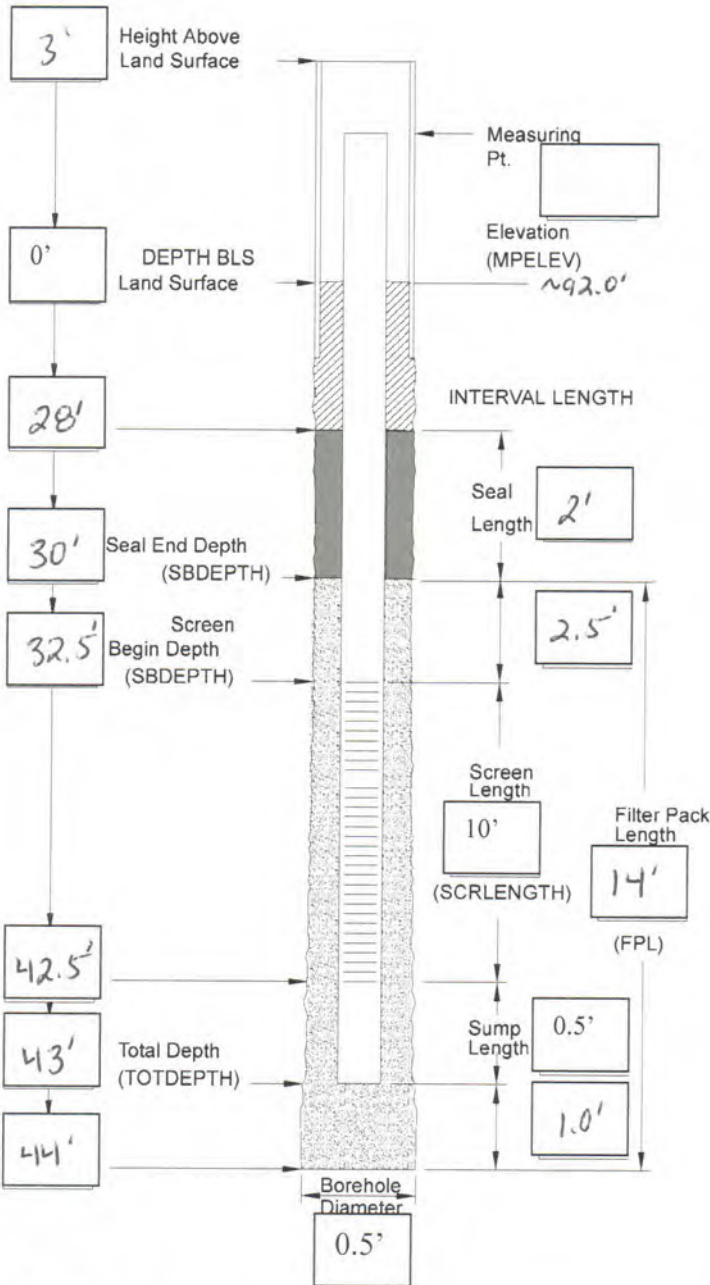
Material: _____
 Placement Method: _____
 Set-up/Hydration Time: _____

Total Water Volume During Construction

Introduced (Gal): _____ Recovered (Gal): _____

Reviewed

By: _____ Date: _____



Comments

Silty sand, brown, fine. DTW ~15' BTOL
TD: 46.13' BTOL

WELL CONSTRUCTION LOG ABOVE GROUND COMPLETION

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

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

Start: 1220

End: 1745 (filter, seal and some grout. Remaining grout completed on 3-16-12) after well was developed

Well Completion

Guard Posts (Y / N) Date: March 20, 2012
 Surface Pad Size: 5 ft x 13 ft

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: March 15, 2012
 Type: 30/65 sand
 Source: 2 Standard 50# bag
 Set-up/Hydration Time: NA
 Placement Method: tremie pipe
 Vol. Fluid Added: ~10 gal

Filter Pack

Type: 30/45 sand
 Source: Standard 50# bag
 Amount Used: 5 bags
 Placement Method: tremie pipe

Well Riser Pipe

Casing Material: Sch 40 PVC
 Casing Inside Diameters: 2 in.

Screen

Material: Sch 40 PVC
 Inside Diameter: 2 in.
 Screen Slot Size: 0.006 in.

Sump or Bottom Cap (Y / N)

Type/Length: 0.5 ft sump

Backfill Plug (Y / N)

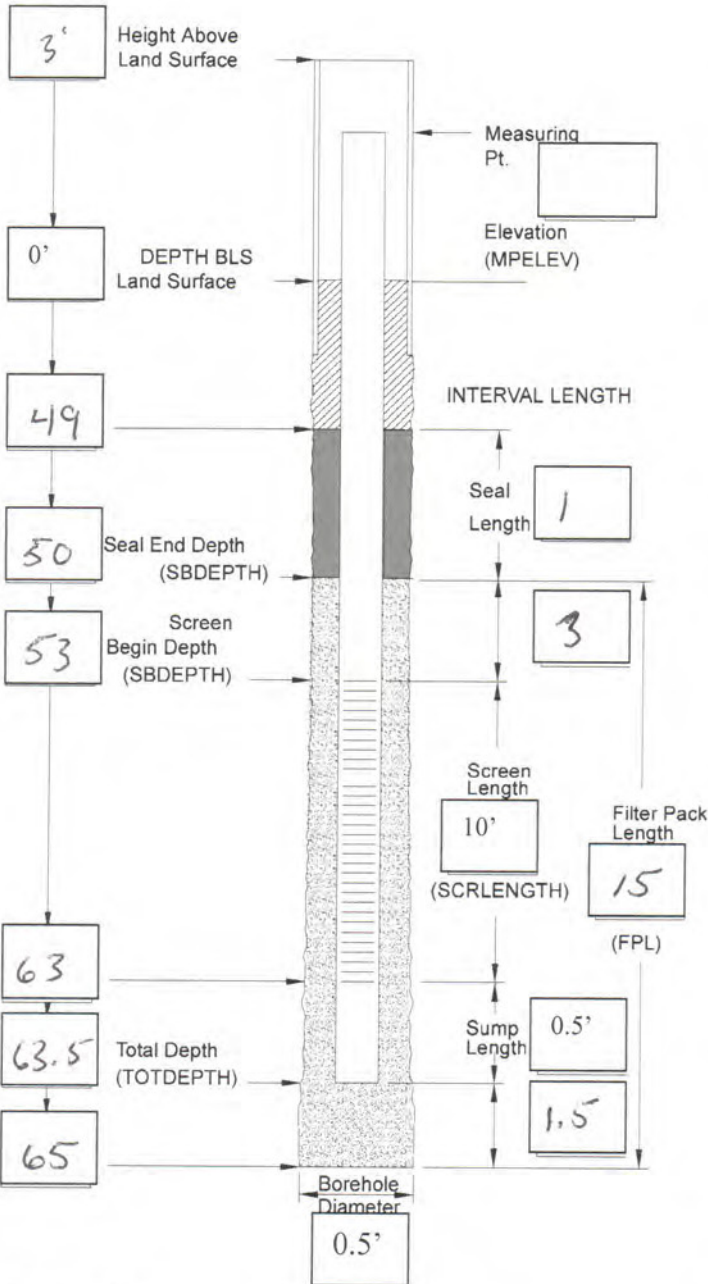
Material: _____
 Placement Method: _____
 Set-up/Hydration Time: _____

Total Water Volume During Construction

Introduced (Gal): _____ Recovered (Gal): _____

Reviewed

By: _____ Date: _____



Comments

logged split spoon samples collected on 5-ft centers starting at 15ft BLS and stopping at 67ft BLS.
TD of well: 66.58 ft BTOL

Monitoring Well Development

Site: J.E.D. SWMF Location: 1501 Omni Way, St. Cloud, FL Date: March 15, 2012 Technician: Joe Terry

Well ID: MW-22A Development Method: Pump Bailer Pump Type: X Submersible (~~X~~ Teflon ~~X~~ SSG ~~X~~ Other PVC) Peristaltic Centrifugal

Pump (Make & Model): Positive Water Sport I Water Quality Meter (Make & Model): NA S/N or ID: NA

Turbidity Meter (Make & Model): Lumatec 2020e S/N or ID: ME12953 Water Level Meter: Solinst

Time @ Start of Purging: 0920 Time @ End of Purging: 1140 Total Purging Time: 140 min.

Initial Depth of Pump or Intake Tubing: 22 ft. (BTOC) Final Depth of Pump or Intake Tubing: 22 ft. (BTOC) Screen Interval: 12.5 ft to 19.5 ft (BTOC)

OT 3-15-12
20:5

Time	Purge Rate (GPM)	Purge Volume (gal)	Cumulative Purge Volume (gal)	Turbidity (NTU)	Color	Depth to Water (ft) BTOC	Comments
0920	1.4	0	0	>1000	brown	14.02	
1015	1.4	77	77	4.2	clear	19.67	
	stopped purge - allowed well to recharge then surged well						
	w/ pump by rapidly drawing it up and down within screen zone. Then purged well for 5 to 10 minutes. Did this repeatedly until 1140. Each time continued purge water was cloudy but quickly cleared. Final turbidity was 2.2 NTU.						

Notes: $TD = 23 \text{ ft} - DTW 14.02 = 8.98 \times 1.47 \text{ gal/ft (6" borehole)} = 13 \text{ gals} = 1 \text{ well volume}$

Final turbidity: 2.2 NTU

Total Gallons Purged: approximately 147 [77 + (10 x 27 gal)]

Final Depth to Water: 19.10 ft BTOC

Final Total Well Depth: 23.66 ft BTOC

Monitoring Well Development

Site: J.E.D. SWMF Location: 1501 Omni Way, St. Cloud, FL Date: March 16, 2012 Technician: Joe Terry
 Well ID: MW-22R B Development Method: Pump Bailer Pump Type: X Submersible (Teflon SS Other) Peristaltic Centrifugal
 Pump (Make & Model): Grundfos Rediflo II & PA Hurricane Water Quality Meter (Make & Model): NA S/N or ID: _____
 Turbidity Meter (Make & Model): LaMotte 2020e S/N or ID: ME12953 Water Level Meter: Solinst
 Time @ Start of Purging: 0715 Time @ End of Purging: 1320 Total Purging Time: 365 min.
 Initial Depth of Pump or Intake Tubing: 40 ft. (BTOC) Final Depth of Pump or Intake Tubing: 40 ft. (BTOC) Screen Interval: 35 ft to 45 ft (BTOC)

Time	Purge Rate (GPM)	Purge Volume (gal)	Cumulative Purge Volume (gal)	Turbidity (NTU)	Color	Depth to Water (ft) BTOC	Comments
0730	1.4	21	21	>1000	brown	15.45	
0750	4.0	28	49	>1000	brown		
0755	4.0	20	69			18.31	
0950	2.0	460	529	Reduced	purge rate because		tripping breaker on VFD controller
1005	2.0	30	559	>1000	brown	16.70	
1130	3.0	170	729	741	brown	18.87	
1200	-	90	819				Stopped purge and shut removed
1210	Resumed	purge @ 1.5 GPM w/					Grundfos pump and continued
1235	1.5	37.5	856.5	>1000		16.60	purge w/ PA Hurricane 12V
1315	1.5	60	916.5	302		16.60	SS submersible pump
1320	Stopped	purge					

Notes: Initial DTW: 13.71 ft BTOC. Initial turbidity > 1000 NTU.
During purging periodically surged well by rapidly raising pump up & down in screen zone
Stopped purge at 1320, final turbidity was 302 NTU - typical for this sites deeper wells
when newly installed
Final DTW: 13.51 ft BTOC
Final Total Depth: 416.13 ft BTOC

Monitoring Well Development

Site: J.E.D. SWMF Location: 1501 Omni Way, St. Cloud, FL Date: March 16, 2012 Technician: Joe Terry
 Well ID: MW-228C Development Method: Pump Bailer Pump Type: X Submersible (Teflon SS Other) Peristaltic Centrifugal
 Pump (Make & Model): PA Hurricane & Grundfos Redi-Flow Water Quality Meter (Make & Model): NA S/N or ID: NA
 Turbidity Meter (Make & Model): LaMotte 2020e S/N or ID: ME12953 Water Level Meter: Solinst
 Time @ Start of Purging: 0830 Time @ End of Purging: 1320 Total Purging Time: 290 min.
 Initial Depth of Pump or Intake Tubing: 60 ft. (BTOC) Final Depth of Pump or Intake Tubing: 60 ft. (BTOC) Screen Interval: 33 ft to 63 ft (BTOC) OT 3-16-12
Below land surface

Time	Purge Rate (GPM)	Purge Volume (gal)	Cumulative Purge Volume (gal)	Turbidity (NTU)	Color	Depth to Water (ft) BTOC	Comments
0830	1.4	0	0	>1000	brown	14.92	Initial purge used Hurricane pump
0955	1.4	119	119	>1000	gray	24.71	
1010	1.4	21	140	>1000	gray	25.33	
1050	1.4	56	196	>1000	gray	25.33	
1100	2.5	14	210				
1110	2.5	25	235	>1000	gray	26.50	
1150	Removed	Hurricane pump and switched to Grundfos to complete development					
1200	4	100	335				
1230	4	120	455	658	gray	36.03	
1255	4	100	555	628	gray	36.20	
1310	4	60	615	222	gray	36.20	
1320	4	40	655				Stopped development

Notes: Initial DTW: 14.92' BTOC. Final DTW: 14.44' BTOC
 During purging periodically surged well by rapidly raising and lowering pump in screen zone
 Final turbidity 222 NTU - typical for deep wells at this site when newly installed
 Final total depth: 66.58 ft BTOC



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.: SC49-0199726-004 & SO49-019972 WACS FACILITY ID NO.: 89544

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: Cement/Bentonite GROUT INTERVAL: 0 TO 6.5 (BLS)

TOP OF CASING ELEVATION (NGVD): 95.00 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.

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Florida Department of Environmental Protection

Bob Martinez Center
2600 Blair Stone Road
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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.: 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: 30 TO 44 (BLS)

SEALANT TYPE: 30/65 sand SEALANT INTERVAL: 28 TO 30 (BLS)

GROUT TYPE: Cement/Bentonite 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.

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DEP Form # 62-701.900(30)
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MONITORING WELL COMPLETION REPORT

DATE: April 11, 2012

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: 28° 3' 34.629" LONGITUDE: -81° 5' 59.854"

(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: 50 TO 65 (BLS)

SEALANT TYPE: 30/65 sand SEALANT INTERVAL: 49 TO 50 (BLS)

GROUT TYPE: Cement/Bentonite GROUT INTERVAL: 0 TO 49 (BLS)

TOP OF CASING ELEVATION (NGVD): 95.13 GROUND SURFACE ELEVATION (NGVD): 92.40

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.

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ATTACHMENT IV
PEAVEY AND ASSOCIATES FIGURE



