

October 15, 2012



John Morris, PG Solid Waste Section Department of Environmental Protection Southwest District Office 13051 North Telecom Parkway Temple Terrace, Florida 33637-0926

Re:

Central County Solid Waste Disposal Complex, WACS No. 51614

Permit Number 130542-002-SO/01 Extension of CW-8A and MW-8A

Dear Mr. Morris:

In accordance with the Phase I Closure Construction Drawings submitted in October 2011 as part of a minor permit modification application approved by Permit No. 130542-016-SF/MM, the upper casings for monitoring wells CW-8A and MW-8A were extended to accommodate construction of the south swale for the Phase I Class I Landfill Closure at the Sarasota County Central County Solid Waste Disposal Complex (CCSWDC). The extension construction was observed by HDR Engineering, Inc. (HDR) and Ardaman and Associates, Inc. (Ardaman). The construction of the extensions was documented by Ardaman in the report provided in Attachment A. The new top of casing and top of concrete pad elevations for CW-8A and MW-8A were surveyed by a Professional Land Surveyor licensed in Florida and a report was provided which is included in Attachment B. The well top of casing and top of concrete pad elevations changed as shown in the table below:

Well ID	WACS No.	Top of Casing Elevation (OLD)	Top of Casing Elevation (NEW)	Concrete Elevation (NEW)	
CW-8A	21453	26.13	35.04	32.03	
MW-8A	22883	28.64	35.4	32.10	

Well completion figures are provided in the Ardaman report in Appendix I for the extended wells. The top of casing elevation listed for CW-8A and MW-8A above will be used for all future groundwater level determination for these wells. In addition, revised monitoring well completion reports for CW-8A and MW-8A indicating the new top of casing elevations listed in the above table are provided in Attachment C for the Department's records.

John Morris, FDEP October 15, 2012 Page 2 of 2

Please contact me anytime at 941-861-1572 if you have any questions or require any additional information regarding the groundwater well extensions.

Sincerely,

Jason Timmons, PE Solid Waste Engineer

Xc: √ Steve Morgan, FDEP

Lois Rose, Sarasota County

Attachments (3)

ATTACHMENT A



Ardaman & Associates, Inc.

Geotechnical, Environmental and Materials Consultants

> (Revised September 17, 2012) September 7, 2012 File No. 09-7375

TO:

HDR Engineering, Inc.

5426 Bay Center Drive, Suite 400

Tampa, FL 33609-3444

Attention: Richard Siemering

Subject:

Extension of Groundwater Monitoring Well Casings at

"Central County Solid Waste Disposal Complex."

4000 Knights Trail Road, Nokomis, Sarasota County, Florida

Dear Richard:

Construction of the "Phase I Class I Landfill Closure and Landfill Gas Collection System" at the subject site has required placement of soil fill in the areas of monitor wells MW-8A and CW-8A. For this reason, the above-grade casings of the monitor wells needed to be extended upward and a new protective cover installed.

Ardaman & Associates was retained to provide a licensed water well contractor (SWFWMD License #9418) to perform and oversee this work. In general, extension of the monitor well casings and placement of cement grout was performed by the water well contractor, while construction of the protective cover and concrete pad was performed by the general contractor (Thalle Construction).

A diagram of the completed construction for each well extension is included as Figures W-1 and W-2 in Appendix I of this report. As-built monitor well locations and elevations were determined by others and are summarized in the table below:

Well I.D.	WACS No.	Northing	Easting	Top of Casing Elevation	Concrete Pad Elevation
A8-WM	21453	1042388.262	530462.808	35.399 ft	32.101 ft
CW-8A	22883	1042359.929	530430.144	35.038 ft	32.028 ft

Copies of the Southwest Florida Water Management District (SWFWMD) well repair permits are included in Appendix II, for your records.

The work was performed in two stages. Each stage is described in the following paragraphs.

The first stage included removing the hinged lid from the existing 4-inch by or 4-inch aluminum protective cover. The top of the existing 2-inch PVC well casings were female flush threaded.

A new, clean section of 10 feet long by 2 inch diameter, schedule 40, flush-threaded PVC monitor well casing (threads matching the existing casing) was threaded onto the existing casing. A top plug was installed on top of the new casing to prevent foreign matter from entering the well. An 8-inch diameter PVC casing (approximately 7 feet long) was installed as shown on the attached Figures and neat cement grout was installed inside the 8-inch casing by the tremie method, to form a seal and to stiffen and protect the monitor well during subsequent earthwork filling around the wells.

The second stage was performed after filling operations had reached somewhat above the top of the 8-inch casing. The top of the previous grout was cleared of any soil, then additional neat cement grout was placed up to the proposed bottom elevation of the concrete pad. The top of the 2-inch PVC monitor well casing was then cut to the appropriate height, new 6" x 6" aluminum protective covers were set into place and a new 4' x 4' x 6" concrete pad constructed.

We understand that the construction also requires bollards to be installed surrounding each of the monitor wells. These bollards were not installed under our observation, since they are not directly a part of the monitor well construction.

We appreciate the opportunity to be of your service on this project. Please contact us when we may be of further service, or if you should have any questions concerning this report.

Very truly yours,

ARDAMAN & ASSOCIATES, INC. Certificate of Authorization No. 5950

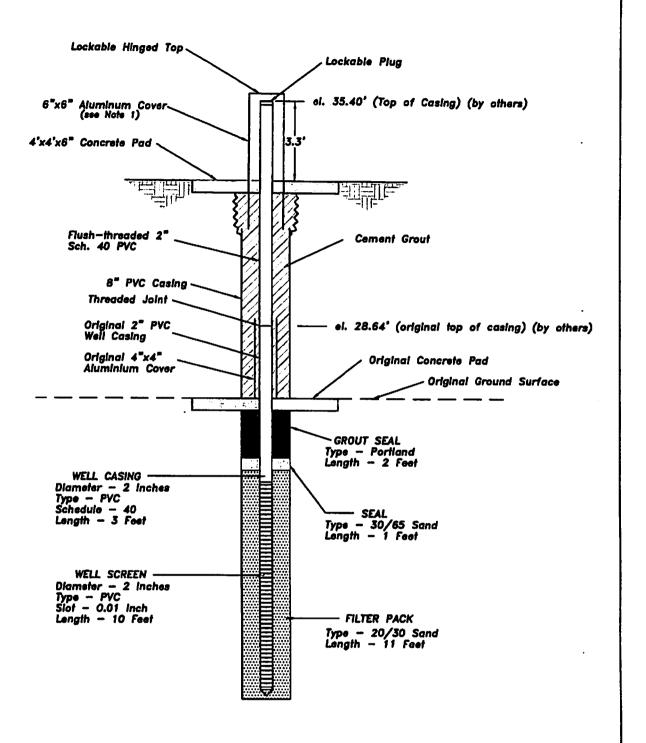
Jerry H. Kdehn, P.E. Senior Project Engineer Fl. License No. 35557

JHK/GHS:ly

Gao H Schmidt, P.E. Vice President

Fl. License No. 12305

APPENDIX I



NOTES:

- 1. Bottom saw-cut at corners and sides flared-out as necessary to fit over 8" PVC casing and previous grout.
- 2. All below original ground surface by others. Information provided by others.

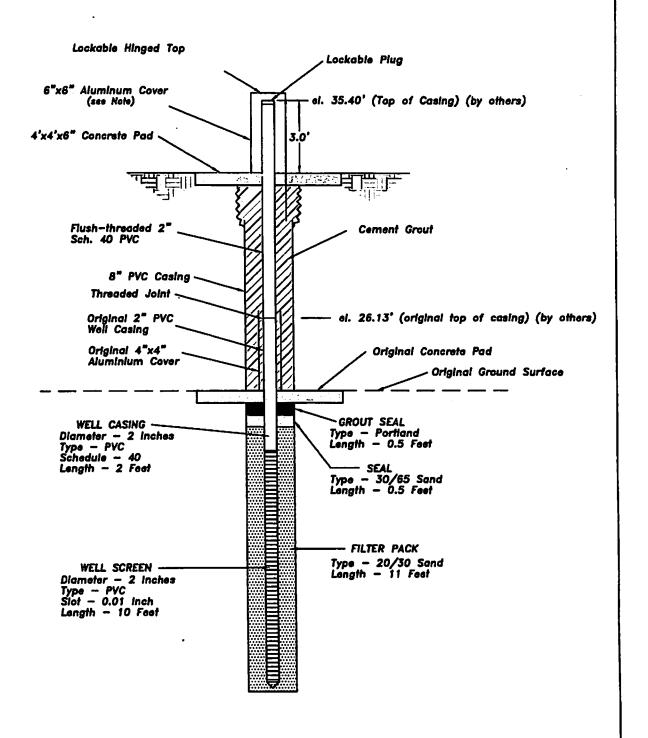
VERTICAL SCALE: 1"=4" HORIZONTAL SCALE: EXAGERATED



Ardaman & Associates, Inc. Geotechnical, Environmental and
Materials Consultants

> Monitor Well MW-8A CCSWDC

Sarasota County, Florida DECEMBER KGS CHEDOD BY DATE 9/17/12



NOTES:

- 1. Bottom saw-cut at corners and sides flared-out as necessary to fit over 8" PVC casing and previous grout.
- 2. All below original ground surface by others. information provided by others.

VERTICAL SCALE: 1"=4" HORIZONTAL SCALE: EXAGERATED



Ardaman & Associates, Inc. Geotechnical, Environmental and Materials Consultants

> Monitor Well CW-8A CCSWDC

Sarasota County, Florida

DEMEN EN KGS CHECKED EN ME 9/17/12 FILE III.

APPENDIX II

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

☑ Southwest PLEASE FILL OUT ALL APPLICABLE FIELDS
(*Denotes Required Fields Where Applicable) ☐ Northwest ☐ St. Johns River

☐ Scuth Florida
☐ Souvannee River
☐ DEP
☑ Delegated Authority (If Applicable) SARASOTA

The water wall contractor is responsible for completing this term and forwarding the permit application to the appropriate dategated authority where applicable.

Permit No	821716
Florida Unique	IO_\$12-261
Permit Stipulati	ons Required (See Attached)
01. 39, 54	
62-524 Quad N	o. Q2620 Delineation No.
CUP/WUP App	fication No
AROV	THIS LINE FOR OFFICIAL HEE ONLY

Sarasota County OFFICE OF MNGMT AND BUDGE SARASOTA			
*Owner, Legal Name if Corporation *Address *City		4230-0008 ZIP	Telephone Number
2. 4000 KNIGHTS TRAIL RD	N/A	ur	reteptione Number
'Well Location - Address, Road Name or Number, City	- INF		-
3. 0327-00-1000 Parcel ID No. (PIN) or Alternate Key (Circle One)	· 		
	Lot	Block	Unit
'Section or Land Grant 'Township 'Range 'County Subdivision		Check if 6	2-524:Yes _x_ No
5. <u>Daniel Pouco</u> 9418 /941 922 1828		daman.com	
6 TO CADACOTA OFFITTE DALLE	E-mail Add		
6. 78 SARASOTA CENTER BLVD SARASOTA "Water Well Contractor's Address City		FL.	34240
7. "Type of Work: Construction _X Repair Modification Abandonment		State	ZIP
8. *Number of Proposed Wells 1 Reason for Rep	oair, Modification,	or Abandonment	
9. *Specify Intended Use(s) of Well(s):		Γ	Dale Stamp
DomesticLandscape IrrigationAgricultural IrrigationSite	nvestigation	, Re	calved:
Nursen Irianten Tan	nitoring et	i.	ıy 29, 2912 1:24 pm
Public Water Supply (Campusity of the Commercial/Industrial Eng	rih-Coupled G	eothermal	17 80, 8012 1.20 pill
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Class V Injection:RechargeCommercial/Industrial DisposalAquifer Storage and Recov	'AC Return very Drai	nage	
Remediation:RecoveryAir SpargeOther (Describe)	,	1	
X Other (Describe) REPAIR IRRIGATION (Note: Not all types of wells are permitted	he a choo permit	ting cutting that	Official Use Only
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14. Estimated Screen Interval: From To [].		Open Hote. I	romıbıı
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16. Secondary Casing:Telescope CasingLiner Surface Casing Diameter	in.		
17. Secondary Casing Material:Black SteelGalvanizedPVCStainless Ste		har	
18.*Method of Construction, Repair, or Abandonment: X Auger Cable ToolJetted	Rote		-i-
Combination (Two or More Methods) Hand Driven (Well Point Sand Point)	Mudanulia Dal	nt (Direct Pusi	NIC N1
Plugged by Approved MethodOther (Describe)	,	in tones :	
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From 10 Seal Material Bentonite Neat Cement Other	;		
20. Indicate total number of existing wells on site 20 List number of existing unused w	vells on site <u>0</u>		
21.1s this well or any existing well or water withdrawal on the owner's contiguous property covered under	r a Consumpti	ve/Water Use I	Permit (CUP/WUP)
or CUP/WUP Application? Yes X No If yes, complete the following: CUP/WUP No.		District Well	ID No
22. Latitude 27 12 03.25 Longitude 82 23 11.61			
23. Data Obtained From: GPS X Map Survey Datum: NAD 27	7 <u>X</u> NAC	083V	VGS 84
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Education and a second state of the construction of the second state of the second sta	oper, modification, cr	Shandonmeri autroni	ted by this permit.
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Signature of Contractor License No. Signature of Owner or Ag	ent		_6/1/2012 _ Date
DO NOT WRITE BELOW THIS LINE - FOR OFFICIAL USE	E ONLY		
	on Date <u>08/30/</u>	2012 Hydrolog	ist Approval
	ick No		
THIS PERMIT IS NOT VALID UNTIL PROPERLY SIGNED BY AN AUTHORIZED OFFICER OR REPRESENTATIVE (PERMIT SHALL BE AVAILABLE AT THE WELL SITE DURING ALL CONSTRUCTION, REPAIR, MODIFICATION, OR	OF THE WMD	OR DELEGATE	DAUTHORITY. THE

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 MAYEMMAD STATE FLAIR

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

WWW.NWFWMD.STATE.FL.US		
Comments:		
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☐ South Florida

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

 Southwest
 Northwest PLEASE FILL OUT ALL APPLICABLE FIELDS (*Denotes Required Fields Where Applicable) J St. Johns River

The water wall controder is responsible for completing this form and ferwarding the parmit application to the oppropriate delegated authority where applicable. ☐ Suwannee River oppropriate delegated authority (If Applicable) SARASOTA

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Unique	ID S12-270	*****
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VUP App	lication No	
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	Stipulat Stipulat 1.54 Quad N VUP App	No821720 I Unique ID S12-270 Stipulations Required (See Attached) 54 Quad No. Q2620 Delineation No. VUP Application No AROYE THIS LINE FOR OFFICIAL USE ONLY

1. Sarasota County OFFICE OF MNGMT AND BUDGE SARASOTA			
1. Sarasota County OFFICE OF MNGMT AND BUDGE SARASOTA *Owner, Legal Name if Corporation *Address *City	FL *State	34230-0008 *ZIP	
2. 4000 KNIGHTS TRAIL RD			*Talaphane Number
*Well Location - Address, Road Name or Number, City	N//	<u> </u>	
3. 0327-00-1000 Parcel ID No. (PIN) or Alternate Key (Circle One)	Lot	Block	Unit
4. 3 38 19 SARASOTA 'Section or Land Grant 'Township 'Range 'County Subdivision		Charlet	
5. Daniel Peaco 9418 (941) 922 2526	مه		62-524:Yes <u>X</u> No
Water Well Contractor *License Number *Telephone Number	dpeace@ E-mail A	ardaman.com	
6. 78 SARASOTA CENTER BLVD		FL	24240
Water Well Contractor's Address City		State	34240 ZIP
7. 'Type of Work:ConstructionX_RepairModificationAbandonment	ense Madificati	on, or Abandonmen	
9. "Specify Intended Use(s) of Weil(s):	срат, мофисан	on, or Abstractment	Dale Stamp
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——Public Water Supply (Community or Non-Community/DEP) ——Colline Capital March 1997 ——Colline Capital M	arın-Couplet VAC Supply	Geothermal	
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10.*Distance from Septic System if ≤ 200 ft. 1.000 11. Facility Description Landfill monitor wells	1	2. Estimated S	tart Date 06/01/2012
13.*Estimated Well Depth 20 ft. *Estimated Casing Depth ft. *Primary Casing Diameter	2_in.	Open Hole:	FromfL
14. Estimated Screen Interval: From To fl.			
15. Primary Casing Material: Black Steel Galvanized X PVC S	Stainless Ste	et	
Not CasedOther:			
16. Secondary Casing:Telescope Casing Liner Surface Casing Diameter			
17. Secondary Casing Material:Black SteelGalvanizedPVCStainless St	teol	Other	
18.*Melhod of Construction, Repair, or Abandonment: X AugerCable ToolJette	edR	olaryS	onic
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21. 1s this well or any existing well or water withdrawal on the owner's contiguous property covered under	er a Consum;	plive/Waler Use	Permit (CUP/WUP)
or CUP/WUP Application? Yes X No If yes, complete the following: CUP/WUP No. 22. Latitude 27 12 03.03 Longitude 82 23 12.26		District We	all ID No
22 Date Observed Communication			
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SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT 2379 BROAD STREET, BROOKSVILLE, FL 34604-6899 PHONE: (352) 796-7211 or (800) 423-1476 WWW.SWFWMD.STATE.FL.US

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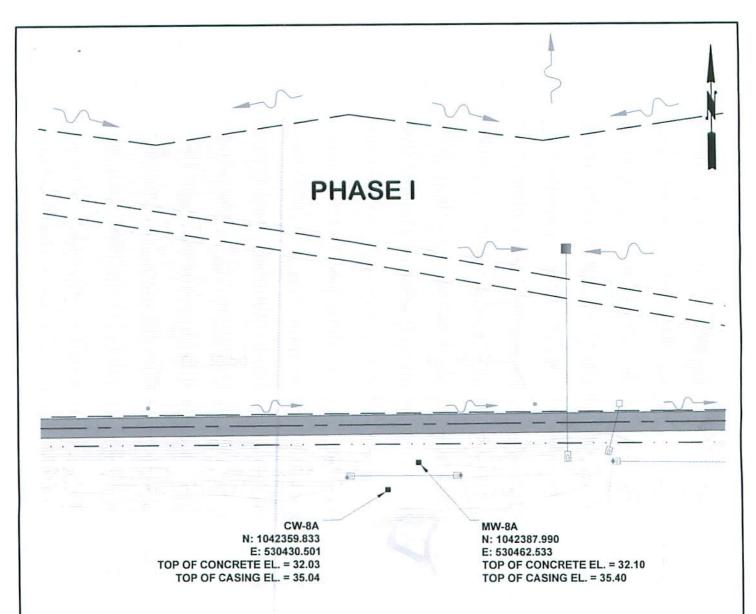
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SUWANNEE RIVER WATER MANAGEMENT DISTRICT 9225 CR 49 LIVE OAK, FL 32060 PHONE: (386) 362-1001 or (800) 226-1066 (Florida only) WWW.MYSUWANNEERIVER.COM

nments: nitor Well CW-8A. Extending above ground casing an additional 10', to allow filling/raising the ground around the	
	·
	
General Site Map of Proposed Well Location	
	2
ing south side of access road on south side of landfill Phase 1 area.	
•	
entify known reads and landmarks. Give distances from all reference points or structures, septic systems, sanitary hazards, and contam	

ATTACHMENT B

ATTACHMENT C



SURVEYOR'S NOTES:

- THE PURPOSE OF THIS SURVEY IS TO SHOW THE HORIZONTAL AND VERTICAL LOCATIONS OF THE MONITORING WELLS CW-8A AND MW-8A FOR THE PHASE I AREA FOR THE PHASE I CLASS I LANDFILL CLOSURE AND LANDFILL GAS COLLECTION SYSTEM PROJECT FOR SARASOTA COUNTY.
- COORDINATES BASED ON FLORIDA STATE PLANE WEST ZONE, NORTH AMERICAN DATUM, 1983 ADJUSTMENT.
- 3. ELEVATIONS BASED ON NATIONAL GEODETIC VERTICAL DATUM 1929 AND ARE BASED ON BENCHMARK INFORMATION PROVIDED BY HDR ENGINEERING, INC. AND SHOWN IN CONSTRUCTION PLANS FOR THE PHASE I CLASS I LANDFILL CLOSURE AND LANDFILL GAS COLLECTION SYSTEM PROJECT FOR SARASOTA COUNTY, AS TEMPORARY BENCHMARKS.
- ELEVATIONS AND COORDINATES PERTAIN ONLY TO THE MONITORING WELLS AND SHOULD NOT BE USED AS CONTROL.

ABBREVIATIONS:

CW COMPLIANCE WELL
E EASTING
EL ELEVATION
MW MONITORING WELL

N NORTHING



DATE: 10-2-12

LAYOUT SERVICES, INC.
3380 S PARK AVE STE 7
TITUSVILLE, FL. 32780
(321) 759-2779
(321) 264-9748 (FAX)

UNLESS IT BEARS THE SIGNATURE AND ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER THIS DRAWING, SKETCH, PLAT OR MAP IS FOR INFORMATIONAL PURPOSES ONLY AND IS NOT

Thereby certify that the survey shown hereon is true and correct to the best of my timeridge and belief, based on actual measurements taken in the Bel Files survey preset the Mensurem Technique Standards as set both by the Filesch Board of Professional Land Surveyors in Chapter 5-17, Florida

Professional Land Surveyor No. 6545 State of Florida

day property

SPECIFIC PURPOSE SURVEY
CW-8A AND MW-8A MONITORING WELLS
CENTRAL COUNTY SOLID WASTE
DISPOSAL COMPLEX
SARASOTA COUNTY, FLORIDA

DEP Form # 62-522	900(3)
Form Title MONITOR	R WELL COMPLETION REPORT
Effective Date	
DEP Application No	

Florida Department of Environmental Protection Twin Towers Office Bldg. 2600 Blair Stone Road Tallahassee, Florida 32399-2400

MONITOR WELL COMPLETION REPORT

DATE: 1/7/08 Revised 101	2/12
INSTALLATION NAME: Sarasota County Central Com	
DEP PERMIT NUMBER: 130542-002-SO/01	GMS NUMBER:
WELL NUMBER: CW-8A (WACS #22883)	WELL NAME: CW-8A
DESIGNATION: Background	Immediate ComplianceX
LATITUDE/LONGITUDE: Lat: 27° 12' 02.89" Lon: 82°	23' 12.59"
AQUIFER MONITORED: Surficial	
INSTALLATION METHOD: Hollow-stem auger	
INSTALLED BY: PBS&J/CDP Drilling, Inc.	
TOTAL DEPTH: 12' (bls)	DEPTH OF SCREEN: 2-12' (bls)
SCREEN LENGTH: 10'	SCREEN SLOT SIZE: 0.01" SCREEN TYPE: PVC
CASING DIAMETER:2"	CASING TYPE:PVC
LENGTH OF CASING: 5"	FILTER PACK MATERIAL: 20/30 grade sand
TOP OF CASING ELEVATION (MSL): 26.132' 35 GROUND SURFACE ELEVATION (MSL): NA	See Corr dates 10/2/2012) IT Suraco fu Co.
COMPLETION DATE: 1/7/08	
	pump to purge water from well at a rate of appoximately 1/4 GPM. Purged water until relatively
clear of sediment.	
POST DEVELOPMENT WATER LEVER ELEVATION (MSL) DATE AND TIME MEASURED:	16.6'
REMARKS: (soils information, stratigraphy, etc.): See	boring log.
REPORT PREPARED BY: Greg Mudd, P.G., PBS&J,	(407) 806-4339 (name, company, phone number)

NOTE: PLEASE ATTACH BORING LOG.

(bis)= Below Land Surface



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: October 15, 2012			
FACILITY NAME: Sarasota County Central County Solid W	aste Disposal Co	mplex	
DEP PERMIT NO.: 130542-018-SO/MM	WACS FACILIT	Y ID NO.: <u>SWD/58/51</u> 6	314
WACS MONITORING SITE NUM.: 21453	_WACS WELL N	O.: <u>MW-8A</u>	
WELL TYPE: BACKGROUND DETECTION	!	COMPLIANCE	
LATITUDE: 27° 12' 3.1717" LON	GITUDE:	82° 23'	12.2417"
(see back for LAT / LONG requirements):			
Coordinate Accuracy 0.1 feet Datum NAD	1983	_ Elevation Datum NO	3VD 1929
Collection Method Survey	_ Collection Dat	e <u>10/2/12</u>	
Collector Name Layout Services, Inc. Colle	ctor Affiliation Co	onstruction Surveyor	
AQUIFER MONITORED: surficial			
DRILLING METHOD: hollow-stem auger	DATE I	NSTALLED: November	er 2005
INSTALLED BY: Extension installed by Ardaman and Asso	ociates, Inc., Augu	ust 2012.	
BORE HOLE DIAMETER: 8 inches TOTAL DEPT	H: 20.4 feet	(BLS)	
CASING TYPE: PVC Sch. 40 CASING DIAMETER: 2	inch	_CASING LENGTH:31	feet
SCREEN TYPE: PVC SCREEN SLOT SIZE:	0.01-inch	_SCREEN LENGTH: <u>1</u>	0 feet
SCREEN DIAMETER: 2-inch SCREEN INTI	ERVAL:3 feet	TO <u>13 feet</u>	(BLS)
FILTER PACK TYPE: Sand FILTE	R PACK GRAIN	SIZE: 20/30	
INTERVAL COVERED: 3 feet TO 11 fee	<u>t</u> (BLS)		
SEALANT TYPE: Sand 30/65 SEALANT INTERVAL	2 feet	TO3 feet	(BLS)
GROUT TYPE: Portland GROUT INTERVAL	<u>0 feet</u>	TO2 feet	(BLS)
TOP OF CASING ELEVATION (NGVD): 35.40 feet GRO	OUND SURFACE	ELEVATION (NGVD):	32.0 feet
DESCRIBE WELL DEVELOPMENT: N/A			
POST DEVELOPMENT WATER LEVEL ELEVATION (NG	VD): <u>N/A</u>		
DATE AND TIME MEASURED: N/A			
REMARKS: Well originally constructed in November 2005.	In August 2012, v	well top of casing exter	nded for
construction of stormwater swale for Phase I Closure. Surv	ey completed on	October 2, 2012.	
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