



SARASOTA COUNTY

"Dedicated to Quality Service"

February 2, 2011

Susan Pelz, P.E.
Solid Waste Section
Department of Environmental Protection
Southwest District Office
13051 North Telecom Parkway
Temple Terrace, Florida 33637-0926

Dept. Of Environmental Protection
FEB 03 2011
Southwest District

RE: Central County Solid Waste Disposal Complex
Permit Number 130542-007-SO/01, WACS Facility #51614
Notice of Evaluation Monitoring, August 10, 2010

Dear Ms. Pelz:

In regards to the Notice of Evaluation Monitoring and further discussions with the Department, the county installed four compliance wells, CW-15, CW-16, CW-19 and CW-20 in the Phase II area on October 7th and 8th of 2010 (Monitoring Well Completion Reports enclosed). Following the development of the new wells, all active compliance wells, detection wells and the background well were sampled for permit parameters or according to 62-701.510(8)(d). The analytical results from the sampling event have been provided to the Department under a separate submittal titled – "2nd Semi-Annual Ground Water Monitoring Report (July-December 2010)".

An exceedence summary table for the background well, Phase II detection wells and Phase II compliance wells has been provided. In regards to adding any detected and confirmed parameters to the routine ground water monitoring parameter list, there are two parameters that were detected that are not currently included in our permit list, manganese and aluminum. Aluminum was detected in MW-19 above the MCL but was not confirmed in the corresponding compliance well, CW-19. Manganese was detected in MW-15 and just above the MCL in CW-15 at 52.9 ug/l.

The county is asking for relief in regards to conducting quarterly sampling for the compliance wells and affected detection wells and for submitting a contamination evaluation plan. This request is based on the following: the Phase II area has been included in the site investigation reports (CEP, CER, SAR) that were conducted as part of OGC Case No. 08-1728 for the exceedences of arsenic, iron, ammonia and TDS; historical data for the site confirmed exceedences of groundwater standards prior to the development of the landfill for chlorides and sodium; sulfate (MW-15 trending down & below the MCL in compliance well), aluminum (MW-19 trending down & below MCL in compliance well) and manganese (see above) are secondary drinking water standards;

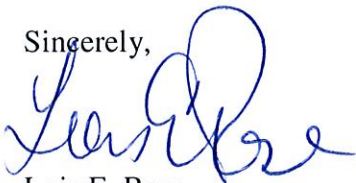
all parameters with exceedences, with the exception of aluminum and manganese are already included in the routine sampling parameter list for the site. Therefore, the county proposes the plan outlined below for the Phase II area:

- Continue with routine monitoring for the background and all Phase II detection wells (MW-15, MW-16, MW-17, MW-18, MW-19, MW-20) on a semi-annual basis for the listed permit parameters in addition to aluminum and manganese.
- Sampling on an annual basis for the parameters listed in 62-701.510(8)(d), F.A.C. shall not be required unless the county is directed by the Department to do so at a later, undetermined date.
- The Phase II compliance wells (CW-15, CW-16, CW-19, CW-20) will be sampled semi-annually for arsenic, iron, ammonia and TDS in addition to manganese and sodium for CW-15 and chloride and sodium for CW-16.
- Sampling of the compliance wells shall continue until all parameters are below the MCL for two consecutive sampling events or if the Department notifies the county to cease sampling of the compliance wells.
- When an individual parameter for a specific well meets the two consecutive sampling events below the MCL requirement, the parameter shall be removed from sampling parameter list for the specific well.

The continuation of evaluation monitoring and submittal of a Contamination Evaluation Plan (CEP) for the Phase II area will be placed on hold until a response confirming or denying the acceptance of the county's proposal from the Department is received by the county.

If you would like to discuss the sampling results, proposal or if you have any questions, please contact me at (941)861-1589 or lerose@scgov.net.

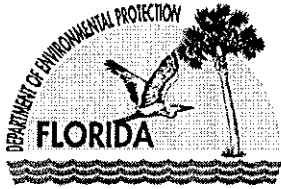
Sincerely,



Lois E. Rose
Manager, Solid Waste

Enc

cc: Gary Bennett, Sarasota County Solid Waste, General Manager
Alison Eggleston, Sarasota County Solid Waste, ESIII
Richard Tedder, P.E., FDEP Tallahassee, Solid Waste Program Administrator
William Kutash, P.G., FDEP SWD, Waste Management Program Administrator
John Morris, P.G., FDEP SWD, Solid Waste Section



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.

DEP of Environmental Protection
FEB 03 2011
Southwest District

MONITORING WELL COMPLETION REPORT

DATE: 10/25/2010

FACILITY NAME: Sarasota Central Landfill Complex

DEP PERMIT NO.: 807843 WACS FACILITY ID NO.: 51614

WACS MONITORING SITE NUM.: _____ WACS WELL NO.: 27138 CW-15

WELL TYPE: BACKGROUND ☐ DETECTION ☐ COMPLIANCE ☒

LATITUDE: 27° 12' 02.95311" LONGITUDE: 82° 23' 31.92789"

(see back for LAT / LONG requirements):

Coordinate Accuracy _____ Datum NAD83 Elevation Datum NGVD-1929

Collection Method _____ Collection Date 10/20/10

Collector Name _____ Collector Affiliation Sarasota County Survey-Mapping

AQUIFER MONITORED: _____

DRILLING METHOD: Wash Rotary (Water Only) DATE INSTALLED: 10/8/10

INSTALLED BY: Dunkelberger Engineering and Testing, Inc.

BORE HOLE DIAMETER: 6" TOTAL DEPTH: 17.5' (BLS)

CASING TYPE: PVC CASING DIAMETER: 2" CASING LENGTH: 9.5'

SCREEN TYPE: PVC/Slotted SCREEN SLOT SIZE: .010 SCREEN LENGTH: 10'

SCREEN DIAMETER: 2" SCREEN INTERVAL: 17' TO 7' (BLS)

FILTER PACK TYPE: SILICA SAND FILTER PACK GRAIN SIZE: 20/30

INTERVAL COVERED: 17 TO 6 (BLS)

SEALANT TYPE: Bentonite Chips SEALANT INTERVAL: 6 TO 5.5 (BLS)

GROUT TYPE: Portland Cement GROUT INTERVAL: 5.5 TO 0 (BLS)

TOP OF CASING ELEVATION (NGVD): 30.173' GROUND SURFACE ELEVATION (NGVD): 27.44'

DESCRIBE WELL DEVELOPMENT: Pumped for 30 mins at 0.5 gal/min

POST DEVELOPMENT WATER LEVEL ELEVATION (NGVD): 21.92'

DATE AND TIME MEASURED: 10/8/10

REMARKS: _____

NAME OF PERSON PREPARING REPORT: Jimmy Jackson, Dunkelberger Engineering and Testing, Inc.,

941-379-0621, jamesj@detinc.net

(Name, Organization, Phone No., E-mail)

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

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7825 Baymeadows Way Ste 200B
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DATE: 10/25/2010

FACILITY NAME: Sarasota Central Landfill Complex

DEP PERMIT NO.: 807843 WACS FACILITY ID NO.: 51614

WACS MONITORING SITE NUM.: _____ WACS WELL NO.: 27139 CW-16

WELL TYPE: BACKGROUND ☐ DETECTION ☐ COMPLIANCE ☒

LATITUDE: 27° 12' 02.999479" LONGITUDE: 82° 23' 38.06370"

(see back for LAT / LONG requirements):

Coordinate Accuracy _____ Datum NAD83 Elevation Datum NGVD-1929

Collection Method _____ Collection Date 10/20/10

Collector Name _____ Collector Affiliation Sarasota County Survey-Mapping

AQUIFER MONITORED: _____

DRILLING METHOD: Wash Rotary (Water Only) DATE INSTALLED: 10/7/10

INSTALLED BY: Dunkelberger Engineering and Testing, Inc.

BORE HOLE DIAMETER: 6" TOTAL DEPTH: 16' (BLS)

CASING TYPE: PVC CASING DIAMETER: 2" CASING LENGTH: 8'

SCREEN TYPE: PVC/Slotted SCREEN SLOT SIZE: .010 SCREEN LENGTH: 10'

SCREEN DIAMETER: 2" SCREEN INTERVAL: 15.5' TO 5.5' (BLS)

FILTER PACK TYPE: SILICA SAND FILTER PACK GRAIN SIZE: 20/30

INTERVAL COVERED: 15.5 TO 5 (BLS)

SEALANT TYPE: Bentonite Chips SEALANT INTERVAL: 4.5 TO 4 (BLS)

GROUT TYPE: Portland Cement GROUT INTERVAL: 4 TO 0 (BLS)

TOP OF CASING ELEVATION (NGVD): 29.578' GROUND SURFACE ELEVATION (NGVD): 28.57'

DESCRIBE WELL DEVELOPMENT: Pumped for 30 mins at 0.5 gal/min

POST DEVELOPMENT WATER LEVEL ELEVATION (NGVD): 21.08'

DATE AND TIME MEASURED: 10/7/10

REMARKS: _____

NAME OF PERSON PREPARING REPORT: Jimmy Jackson, Dunkelberger Engineering and Testing, Inc.,

941-379-0621, jamesj@detinc.net

(Name, Organization, Phone No., E-mail)

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MONITORING WELL COMPLETION REPORT

DATE: 10/25/2010

FACILITY NAME: Sarasota Central Landfill Complex

DEP PERMIT NO.: 807843 WACS FACILITY ID NO.: 51614

WACS MONITORING SITE NUM.: _____ WACS WELL NO.: 27140 CW-19

WELL TYPE: BACKGROUND ☐ DETECTION ☐ COMPLIANCE ☒

LATITUDE: 27° 12' 10.08576" LONGITUDE: 82° 23' 45.53219"

(see back for LAT / LONG requirements):

Coordinate Accuracy _____ Datum NAD83 Elevation Datum NGVD-1929

Collection Method _____ Collection Date 10/20/10

Collector Name _____ Collector Affiliation Sarasota County Survey-Mapping

AQUIFER MONITORED: _____

DRILLING METHOD: Wash Rotary (Water Only) DATE INSTALLED: 10/7/10

INSTALLED BY: Dunkelberger Engineering and Testing, Inc.

BORE HOLE DIAMETER: 6" TOTAL DEPTH: 15' (BLS)

CASING TYPE: PVC CASING DIAMETER: 2" CASING LENGTH: 7'

SCREEN TYPE: PVC/Slotted SCREEN SLOT SIZE: .010 SCREEN LENGTH: 10'

SCREEN DIAMETER: 2" SCREEN INTERVAL: 14.5' TO 4.5' (BLS)

FILTER PACK TYPE: SILICA SAND FILTER PACK GRAIN SIZE: 20/30

INTERVAL COVERED: 14.5 TO 4 (BLS)

SEALANT TYPE: Bentonite Chips SEALANT INTERVAL: 3.5 TO 3 (BLS)

GROUT TYPE: Portland Cement GROUT INTERVAL: 3 TO 0 (BLS)

TOP OF CASING ELEVATION (NGVD): 27.524' GROUND SURFACE ELEVATION (NGVD): 24.81'

DESCRIBE WELL DEVELOPMENT: Pumped for 30 mins at 0.5 gal/min

POST DEVELOPMENT WATER LEVEL ELEVATION (NGVD): 21.77'

DATE AND TIME MEASURED: 10/7/10

REMARKS: _____

NAME OF PERSON PREPARING REPORT: Jimmy Jackson, Dunkelberger Engineering and Testing, Inc.,

941-379-0621, jamesj@detinc.net

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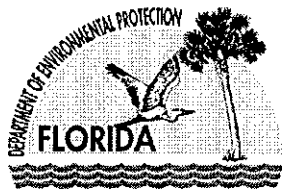
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MONITORING WELL COMPLETION REPORT

DATE: 10/25/2010

FACILITY NAME: Sarasota Central Landfill Complex

DEP PERMIT NO.: 807843

WACS FACILITY ID NO.: 51614

WACS MONITORING SITE NUM.: _____

WACS WELL NO.: 27141 CW-20

WELL TYPE: BACKGROUND ☐

DETECTION ☐

COMPLIANCE ☒

LATITUDE: 27° 12' 15.86268" LONGITUDE: 82° 23' 45.56977"

(see back for LAT / LONG requirements):

Coordinate Accuracy _____ Datum NAD83 Elevation Datum NGVD-1929

Collection Method _____ Collection Date 10/20/10

Collector Name _____ Collector Affiliation Sarasota County Survey-Mapping

AQUIFER MONITORED: _____

DRILLING METHOD: Wash Rotary (Water Only)

DATE INSTALLED: 10/7/10

INSTALLED BY: Dunkelberger Engineering and Testing, Inc.

BORE HOLE DIAMETER: 6" TOTAL DEPTH: 15' (BLS)

CASING TYPE: PVC CASING DIAMETER: 2" CASING LENGTH: 7'

SCREEN TYPE: PVC/Slotted SCREEN SLOT SIZE: .010 SCREEN LENGTH: 10'

SCREEN DIAMETER: 2" SCREEN INTERVAL: 14.5' TO 4.5' (BLS)

FILTER PACK TYPE: SILICA SAND FILTER PACK GRAIN SIZE: 20/30

INTERVAL COVERED: 14.5 TO 4 (BLS)

SEALANT TYPE: Bentonite Chips SEALANT INTERVAL: 3.5 TO 3 (BLS)

GROUT TYPE: Portland Cement GROUT INTERVAL: 3 TO 0 (BLS)

TOP OF CASING ELEVATION (NGVD): 27.383' GROUND SURFACE ELEVATION (NGVD): 24.57'

DESCRIBE WELL DEVELOPMENT: Pumped for 30 mins at 0.5 gal/min

POST DEVELOPMENT WATER LEVEL ELEVATION (NGVD): 21.38'

DATE AND TIME MEASURED: 10/7/10

REMARKS: _____

NAME OF PERSON PREPARING REPORT: Jimmy Jackson, Dunkelberger Engineering and Testing, Inc.,

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Central County Solid Waste Disposal Complex - Phase II Monitoring & Compliance Wells

Well #	Parameter	2010 1st Semi-Annual Exceedence Value	2010 October/December Exceedence Value	Limit	Units	Consent Order Parameter	Notes
MW-1R	Iron	4120	6,550	300	µg/l	Yes	
MW-15	pH	6.34	6.29	6.5	Units	Yes	
	Arsenic	47.3	48.6	10	µg/l	Yes	
	Iron	46900	49,600	300	µg/l	Yes	
	TDS	3540	2810	500	mg/l	Yes	
	Ammonia	4.1	5	2.8	mg/l	Yes	
	Sulfate	639	392	250	mg/l	No	Secondary Standard, compliance well below MCL
	Manganese	1010	995	50	µg/l	No	Secondary Standard, compliance well just exceeds MCL
CW-15	pH		6.39	6.5	Units	Yes	
	Arsenic		16.8	10	µg/l	Yes	
	Iron		59,900	300	µg/l	Yes	
	TDS		1,700	500	mg/l	Yes	
	Ammonia		25.1	2.8	mg/l	Yes	
	Sulfate		47.8	250	mg/l		
	Manganese		52.9	50	µg/l	No	Secondary Standard, just exceeds MCL
	Sodium		184	160	mg/l	No	Historical before landfill development - SCS Report 06/28/2002
MW-16	pH	6.23	6.32	6.5	Units	Yes	
	Arsenic	47.3	48.5	10	µg/l	Yes	
	Iron	55900	62,000	300	µg/l	Yes	
	Sodium	256	275	160	mg/l	No	Historical before landfill development - SCS Report 06/28/2002
	Ammonia	12.5	20.4	2.8	mg/l	Yes	
	Chloride	305	317	250	mg/l	No	Historical before landfill development - SCS Report 06/28/2002
	TDS	1830	1630	500	mg/l	Yes	
CW-16	pH		5.97	6.5	Units	Yes	
	Arsenic		24.9	10	µg/l	Yes	
	Iron		71,900	300	µg/l	Yes	
	Sodium		173	160	mg/l	No	Historical before landfill development - SCS Report 06/28/2002
	Ammonia		14.4	2.8	mg/l	Yes	
	Chloride		158	250	mg/l		
	TDS		930	500	mg/l	Yes	
MW-17	pH	6.18	6.2	6.5	Units	Yes	
	Arsenic	70.0	65.5	10	µg/l	Yes	
	Iron	105000	116,000	300	µg/l	Yes	
	Ammonia	25.1	25.2	2.8	mg/l	Yes	
	TDS	948	910	500	mg/l	Yes	
MW-18	pH	6.26	6.42	6.5	Units	Yes	
	Arsenic	5.0U	10.3	10	µg/l	Yes	New exceedence, part of consent order
	Iron	28100	37,100	300	µg/l	Yes	
	TDS	605	746	500	mg/l	Yes	
MW-19	pH	5.95	6.01	6.5	Units	Yes	
	Aluminum	2830	471	200	ug/l	No	Trending down, not detected in compliance well
	Arsenic	42.2	38	10	µg/l	Yes	
	Iron	63300	76,000	300	µg/l	Yes	
	Ammonia	22.4	12.5	2.8	mg/l	Yes	
CW-19	pH		6.56	6.5	Units		
	Aluminum		50.0 U	200	ug/l		
	Arsenic		23.1	10	µg/l	Yes	
	Iron		11,800	300	µg/l	Yes	
	Ammonia		2.9	2.8	mg/l	Yes	
MW-20	pH	6.48	6.58	6.5	Units		
	Arsenic	76.7	55.6	10	µg/l	Yes	
	Iron	58200	38,900	300	µg/l	Yes	
	Lead	15.9	5.0U	15	µg/l		
	Vanadium	65.6	5.0U	49	µg/l		
	Ammonia	3.2	2.60	2.8	mg/l		
	TDS	1180	1350	500	mg/l	Yes	
CW-20	pH		6.68	6.5	Units		
	Arsenic		26.6	10	µg/l	Yes	
	Iron		7,100	300	µg/l	Yes	
	Lead		5.0U	15	µg/l		
	Vanadium		5.0U	49	µg/l		
	Ammonia		0.89	2.8	mg/l		
	TDS		604	500	mg/l	Yes	

Exceedence Parameter

Exceedence Parameter Addressed in OGC Case No. 08-1728

No Exceedence Confirmed in Monitoring & Compliance Well