JONES EDMUNDS

August 8, 2008

Ms. Susan J. Pelz, P.E. Florida Department of Environmental Protection Southwest District 13051 North Telecom Parkway Temple Terrace, Florida 33637-0926 Dept of Environmental

Protection

AUG 08 2008

Southwest District

Subject:

Southeast County Landfill, Class I Landfill Operation Permit Renewal Application

Phases I-VI and Capacity Expansion Area (Sections 7/8/9) Pending Permit No. 35435-014-SO, Hillsborough County

Supplemental Information to RAI No. 1

Dear Ms. Pelz:

On behalf of the Hillsborough County Solid Waste Management Department (SWMD), Jones Edmunds submits the following documents as supplemental information to RAI No. 1 dated May 16, 2007:

- Attachment 1. Responses to FDEP Geotechnical Comments (Part J) Memo dated February 16, 2007 (RAI No. 1) by Ardaman & Associates, Inc. and supplemental memo from Jones Edmunds.
- Attachment 2. Responses to FDEP Groundwater (Part I and M) Memo dated June 5, 2008.
- Attachment 3. Revised Operations Plan Sections L.2.f.(2), L.2.f.(3), and L.7.h.
- Attachment 4. Monitoring Well Completion Reports and Surveys for TH-69A, TH-70A, and TH-71A.
- Attachment 5. Financial Assurance Section 9 Compliance Letter.

Attachments 1 and 2 are responses to FDEP's comments dated February 16, 2007 and June 5, 2008, respectively. Attachment 1 also includes additional information from Jones Edmunds to supplement the Ardaman & Associates responses. As part of the revisions provided in Attachment 2 for Part I and M, we have included a revised monitoring well location map. Due to some noted field discrepancies, mapped locations of monitoring wells TH-65, TH-66, P-11D, TH-35A, and the mine cut staff gauges have been shifted to more accurately represent the locations based on survey data. These changes have been evaluated and do not significantly change groundwater potentiometric interpretations. The well location maps and potentiometric maps provided in Attachment 2 have been revised to reflect the new well locations. The survey information used to relocate the monitoring wells is provided in Attachment 4B.

324 South Hyde Park Avenue Suite 250 Tampa, FL 33606 Ms. Susan Pelz, P.E. August 8, 2008 Page 2

We have revised the Operations Plan to update the temporary side slope completion plans for Section 7 and 8 [L.2.f.(2) and L.2.f.(3)] and to include the method for mixing the soil and mulch (L.7.h) for use as cover material. The Operations Plan pages which changed due to these revisions are provided in Attachment 3.

In addition, in compliance with Construction Permit 35435-011-SC/01 issued by FDEP on March 12, 2006, we are submitting Well Completion Reports and Well Construction Logs for the newly installed wells at the Southeast County Landfill.

Jones Edmunds installed and pre-developed three groundwater monitoring wells on May 15, 2008 as part of the groundwater monitoring network for the newly constructed Section 9. This new monitoring network was installed to permit specifications and includes groundwater monitoring wells TH-69A, TH-70A, and TH-71A.

The driller's logs (Attachment 4A), monitoring well completion reports (Attachment 4A), and signed and sealed survey (Attachment 4B) for TH-69A, TH-70A, and TH-71A, in accordance with Rule 62-701.510(3)(d)(1), are provided in Attachment 4. Part I and M have been revised to include these wells as replacements for TH-69, TH-70, and TH-71, which were previously installed. These wells were replaced to increase the depth of monitoring to ensure monitoring within the water column throughout the year.

Finally, Attachment 5 contains the financial assurance compliance letter for Section 9. The last financial test submitted by Hillsborough County included Section 9. Therefore, the financial assurance for Section 9 is in place and has been approved.

Please contact me at 813/258-0703 if you have any questions or comments regarding the attacked documents.

Patricia W. Berry, SWMD Megan Miller, SWMD Larry E. Ruiz, SWMD Ron Cope, EPC

ATTACHMENT 4

Monitoring Well Completion Reports and Surveys for TH-69A, TH-70A, and TH-71A

ATTACHMENT 4A

Well Completion Reports and Well Construction Logs

DEP Form # 62-522,900(3)
Form Title MONITOR WELL COMPLETION REPORT
Effective Date
DEP Application No
(Filled in by DEP)

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

MONITOR WELL COMPLETION REPORT

DATE: 05/27/2008		
INSTALLATION NAME: Hillsborough County SE Landfill		
DEP PERMIT NUMBER: 35435-011-SC/01	GMS NUMBER: WACS ID N	NUMBER: SWD/29/41193
WELL NUMBER:_69A	WELL NAME: TH-69A	
DESIGNATION: Background	Detection	Compliance X
LATITUDE/LONGITUDE: 27° 46′ 37.95289″ LATITUDE / 82	° 10' 46.89833" LONGITUDE	
AQUIFER MONITORED: Surficial		
INSTALLATION METHOD: Hollow-Stem Auger		
INSTALLED BY: Huss Drilling, Inc. Specifications provided	by Jones Edmunds & Associates, Inc.	
TOTAL DEPTH: 31.8 ft (bls)	DEPTH OF SCREEN: _16.8 to 31.8 ft (bls)	
SCREEN LENGTH: 15 ft	SCREEN SLOT SIZE: 0.010 in	SCREEN TYPE: sch. 40 PVC slotted
CASING DIAMETER: 2 in	CASING TYPE: sch. 40 P	VC
LENGTH OF CASING: 16.8 ft (does not include stickup) - ~	19.8 ft. w/stickup FILTER PACK MATERIAL:	20/30 silica sand
TOP OF CASING ELEVATION (MSL): 144.97 ft NGVD 192	9	
GROUND SURFACE ELEVATION (MSL): 141.69 ft NGVD	1929	
COMPLETION DATE: 05/15/2008		
DESCRIBE WELL DEVELOPMENT: Initial development was	as conducted by the drillers using a handheld sub-	mersible pump for approximately 34 minutes.
Water never completely cleared, but was much lighter brown	n than when began (very dark brown with a lot of f	ines). Lithologic unit has much fine,
carbonaceous (organic) material.		
POST DEVELOPMENT WATER LEVEL ELEVATION (MSL): Post initial development~26.4 ft bls from groun	d surface - ~29,4 fl bls w/stickup,
DATE AND TIME MEASURED: 05/15/08, 10:44 a.m.		
REMARKS: (soils information, stratigraphy, etc.): See attack	ched boring log.	
REPORT PREPARED BY: Angela K. Owen (Geologist), Jo		
	(name, company, phone number)	

NOTE: PLEASE ATTACH BORING LOG.

(bls)= Below Land Surface

TEST BORING FIELD REPORT

Project Name: Hillsborough Co SE LF Cell 9 Constr.

Project Number: 08449-030-02-1110 Drilling Contractor: Huss Drilling

Drilling/Sampling Methods: Hollow Stem Auger

Boring Number: TH-69A

Page 1 of 1 Test Boring Completed: 05/15/08, Well Completed: 05/15/08

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Jones Edmunds Field Geologist: Angela K. Owen

Reviewed By/Date:

Elevations: Ground: (NA) ft NGVD 29, Top of Slab: (NA) ft NGVD 29 Top of Casing: 144.97ft NGVD 29 (Hillsborough Co. Survey Dept.)

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Well Casing/Pipe: Diam. and Type = 2-in Sch. 40 PVC; Solid Length =16.8 ft bls; Screen = 15 ft, 0.010-in

Grout = 2 94-lb Bags of Cement Grout to Surface; Pad = 2x2-ft Concrete; Cover = 6-in Aluminum Cylinder Stick-Up

Sand Filter Pack = 9 50-lb Bags; Type = 20/30 Silica; Placed from 14.8 to 31.8 ft bls (measured) Annular Seal: Type = Bentonite Pellets; Thickness = 2 ft; Placed from 12.8 to 14.8 ft bls (measured)

Total Well Depth = 31.8 ft bis

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Bentonite:	1	17	32	Which is ft. [1	above X below land	surface		
(Other)				Casing: [] Black Ste	el [] Ğalvanized [X PVC [] Other	r:	
MELL LOCATION: County				[] Open Hole [] Screen Casing Diameter and Depth (ft.) Diameter: 2 From: 0 To: 17 Diameter: 2 From: 17 To: 32	Prom To 15 brown fine sand 15 30 green hot appli 30 32 brown not appli	cable sandy clay	every 20 ft. or at s. Note cavities, g zones. Type of Material	N
CHEMICAL ANALYSIS Inon:ppm Sinch State Stat	ulfate:ppm n TDSmg/l umhos/cm] Field Test Kit] Jet [] Submersit Capacity: ft. Intake Deptl	other reference of the	nce points	Liner [] or Casing [] Diameter: From: To: Driller's Name (print or t				

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

MONITOR WELL COMPLETION REPORT

DATE: 05/27/2008		
INSTALLATION NAME: Hillsborough County SE Landfill		
DEP PERMIT NUMBER: 35435-011-SC/01	GMS NUMBER: WACS ID NUM	IBER: SWD/29/41193
WELL NUMBER: 70A	WELL NAME: TH-70A	
DESIGNATION: Background	Detection	Compliance X
LATITUDE/LONGITUDE: 27° 46' 40.85739" LATITUDE / 82°	10' 44.46189" LONGITUDE	and the second s
AQUIFER MONITORED: Surficial		
INSTALLATION METHOD: Hollow-Stern Auger		· · · · ·
INSTALLED BY: Huss Drilling, Inc. Specifications provided by	y Jones Edmunds & Associates, Inc.	
TOTAL DEPTH: 33.4 ft (bls)	DEPTH OF SCREEN: 18.4 to 33.4 ft (bls)	
SCREEN LENGTH: 15 ft	SCREEN SLOT SIZE: 0.010 in	SCREEN TYPE: sch. 40 PVC slotted
CASING DIAMETER: 2 in	CASING TYPE: sch. 40 PVC	
LENGTH OF CASING: 18.4 ft (does not include stickup) - ~2	1.4 ft.w/stickup FILTER PACK MATERIAL: 20/3	30 silica sand
TOP OF CASING ELEVATION (MSL): 146.63 ft NGVD 1929		
GROUND SURFACE ELEVATION (MSL): 143.17 ft NGVD 1	929	
COMPLETION DATE: 05/15/2008		
DESCRIBE WELL DEVELOPMENT: Initial development was	conducted by the drillers using a handheld submers	sible pump for approximately 25 minutes.
Water cleared to a light 'tea' color from a very dark brown with	a lot of fines. Lithologic unit has much fine, carbona	aceous (organic) material.
I POST DEVELOPMENT WATER LEVEL ELEVATION (MSL):	Post initial development~23.74 ft bls from ground s	urface - ~26.74 ft bls w/stickup.
DATE AND TIME MEASURED: 05/15/08, 10:57 a.m.		
REMARKS: (soils information, stratigraphy, etc.): See attach	ed boring log.	
REPORT PREPARED BY: Angela K. Owen (Geologist), Jone		
	(name, company, phone number)	

NOTE: PLEASE ATTACH BORING LOG.

(bls)= Below Land Surface

TEST BORING FIELD REPORT Boring Number: TH-70A Page 1 of 1 Project Name: Hillsborough Co SE LF Cell 9 Constr. Test Boring Completed: 05/15/08, Well Completed: 05/15/08 Project Number: 08449-030-02-1110 Jones Edmunds Field Geologist: Angela K. Owen Drilling Contractor: Huss Drilling Reviewed By/Date: Drilling/Sampling Methods: Hollow Stem Auger Elevations: Ground: (NA) ft NGVD 29, Top of Slab: (NA) ft NGVD 29 Top of Casing: 146.63 ft NGVD 29 (Hillsborough Co. Survey Dept.) **ASTM D1586** Stick-Up Cover Description of Soil per 6" quartz SAND fill; light beige mottled w/tan; med. grain; sub-rounded; moderately well sorted; clean; dry as above (a.a.); beige; clean; dry 10 10 a.a.; light gray; slightly clayey; damp 15 a.a.; more clayey and cohesive; wet 20 a.a. 25 slightly sandy CLAY; gray; saturated 30 silty SAND fill; black, organic looking; very fine; sub-rounded; well sorted; blebs of medium gray colored CLAY; media is saturated 35 TD TD ~ 33.4' bls TD 40

Notes and Additional Data/Info. (Specify if Other Materials Used): Total Well Depth = <u>33.4</u> ft bls

Well Casing/Pipe: Diam. and Type = 2-in Sch. 40 PVC; Solid Length =18.4 ft bls; Screen = 15 ft, 0.010-in Sand Filter Pack = 10 50-lb Bags; Type = 20/30 Silica; Placed from 16.4 to 33.4 ft bls (measured) Annular Seal: Type = Bentonite Pellets; Thickness = 2 ft; Placed from 14.4 to 16.4 ft bls (measured)

ENGINEERS | ARCHITECTS | SCIENTISTS

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Grout = 2 94-lb Bags of Cement Grout to Surface; Pad = 2x2-ft Concrete; Cover = 6-in Aluminum Cylinder Stick-Up

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PERMIT #: 77432	26.2 CUP/WUP#	: DID#	#:	COMPLETION DATE	05/15/2008	Florida Unique I.D.:	
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I certify that the info	rmation provided in t	his report is accurate a	nd true.	[] Rota	ry [] Cable T	ool [] Combination	
Grout	No. of Bags	From (ft.)	To (ft.)			[] Other	
Neat Cement:	4	0	18.5	Measured Static Water	er Level: Mea	sured Pumping Water Level:suring Pt. (Describe):	
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(Other)				Casing: [] Black Ste	el [] Galvanized 🕻	(PVC [] Other:	-
1/4 of		ough 27, Township <u>31</u> Longitude: <u>-82° 12'</u>		[] Open Hole [] Screen Casing Diameter	Depth (feet)	DRILL CUTTINGS LOG Examine cuttings every 20 ft. or at formation changes. Note cavities, depth to producing zones.	
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DEP Form # 62-522,900(3)
Form Title MONITOR 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: <u>05/2//2008</u>	·	
INSTALLATION NAME: Hillsborough County SE Landfill		
DEP PERMIT NUMBER: 35435-011-SC/01	GMS NUMBER: WACS ID NUMB	BER: SWD/29/41193
WELL NUMBER: 71A	WELL NAME: TH-71A	
DESIGNATION: Background Det	ection	Compliance X
LATITUDE/LONGITUDE: 27° 46' 44.41878" LATITUDE / 82° 10' 4	1.46297" LONGITUDE	
AQUIFER MONITORED:_Surficial		
INSTALLATION METHOD: Hollow-Stem Auger		
INSTALLED BY: Huss Drilling, Inc. Specifications provided by Jon	es Edmunds & Associates, Inc.	
TOTAL DEPTH: 33.9 ft (bls)	DEPTH OF SCREEN: 18.9 to 33.9 ft (bls)	
SCREEN LENGTH: 15 ft SC	CREEN SLOT SIZE: 0.010 in	SCREEN TYPE: sch. 40 PVC slotted
CASING DIAMETER: 2 in	CASING TYPE: sch. 40 PVC	
LENGTH OF CASING: 18.9 ft (does not include stickup) - ~21.9 ft. stickup TOP OF CASING ELEVATION (MSL): 146.95 ft NGVD 1929	w/finished FILTER PACK MATERIAL: 20/30) silica sand
GROUND SURFACE ELEVATION (MSL): 143.2 ft NGVD 1929		
COMPLETION DATE: 05/15/2008		
DESCRIBE WELL DEVELOPMENT: Initial development was cond	ucted by the drillers using a handheld submersi	ble pump for approximately 25 minutes.
Water cleared to a light 'tea' color from a very dark brown with a lot	of fines. Lithologic unit has much fine, carbona	ceous (organic) material.
 POST DEVELOPMENT WATER LEVEL ELEVATION (MSL): <u>Post</u>	initial development~24 ft bls from ground surfa	ce - ~27 ft bls w/finished stickup.
DATE AND TIME MEASURED: 05/15/08, 2:33 p.m.		
REMARKS: (soils information, stratigraphy, etc.): See attached bo	ring log.	
I		
REPORT PREPARED BY: Angela K. Owen (Geologist), Jones Ed		
	(name, company, phone number)	

NOTE: PLEASE ATTACH BORING LOG.

(bls)= Below Land Surface

TEST BORING FIELD REPORT

Project Name: Hillsborough Co SE LF Cell 9 Constr.

Project Number: 08449-030-02-1110 Drilling Contractor: Huss Drilling

Drilling/Sampling Methods: Hollow Stem Auger

Boring Number: TH-71A

Page 1 of 1

Test Boring Completed: 05/15/08, Well Completed: 05/15/08

Jones Edmunds Field Geologist: Angela K. Owen

Reviewed By/Date:

Elevations: Ground: (NA) ft NGVD 29, Top of Slab: (NA) ft NGVD 29

Top of Casing: (NA) ft NGVD 29 (Hillsborough Co. Survey Dept.)

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Depth	ASTM D1	586			Stick-Up Cov	/er
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Note	os and A	dditic	nal Da	ata/Info. (Specify if Other Materials Used):		

Total Well Depth = 33.9 ft bls

Well Casing/Pipe: Diam. and Type = 2-in Sch. 40 PVC; Solid Length =18.9 ft bls; Screen = 15 ft, 0.010-in Sand Filter Pack = 10_{\circ} 50-lb Bags; Type = $20/30_{\circ}$ Silica; Placed from 16.9_{\circ} to 33.9_{\circ} ft bls (measured) Annular Seal: Type = Bentonite Pellets; Thickness = 2 ft; Placed from 14.9 to 16.9 ft bls (measured)

ENGINEERS | ARCHITECTS | SCIENTISTS

EDMUNDS

IONES

Grout = 2 94-lb Bags of Cement Grout to Surface; Pad = 2x2-ft Concrete; Cover = 6-in Aluminum Cylinder Stick-Up

PERMIT #: _77432 Indicate the number Indicate the number cancelled:		DID:	#:	Parcel # (Pin): WELL USE: [] Publi	05/15/	/2008] Irrigation	Florida Unique I.D.:	<u></u>
WATER WELL CON SIGNATURE <u>Dig</u> I certify that the info	ITRACTOR'S itally Signed rmation provided in th	License # <u>93</u> his report is accurate a	342 and true.	DRILL METHOD:			RVATION OR MONITOR WE ool [] Combination [] Other	
Grout	No. of Bags	From (ft.)	To (ft.)					1
Neat Cement:	5	0	19	Measured Static Water	er Level:	Meas	sured Pumping Water Level:suring Pt. (Describe):	
Bentonite:	1	19	34	Which isft. []	above 🔀 t	elow land s	surface	
(Other)				Casing: [] Black Ste	el []Galva	anized D	() PVC [] Other:	
WELL LOCATION: (1/4 of Latitude: 27° 45' 4	County Hillsbord 1/4 of Section 2 15.06", I	27, Township <u>3</u>	1_, Range_21_ 8.32"	[] Open Hole [] Screen Casing Diameter and Depth (ft.)	Dep (fee		DRILL CUTTINGS LOG Examine cuttings every 20 ft, or at formation changes. Note cavities, depth to producing zones.	
DATE ST	AMP	Sketch of well local	tion on property	' ' '			Color Grain Size Type of Material	_
May 20 2008			Diameter: 2 From: 0 To: 19 Diameter: 2		en not applic	able sandy clay	N	
Official Use	Only			Diameter: 2 From: 19 To: 34]
CHEMICAL ANALYSIS VIRON:ppm SI Chlorides:ppm Conductivity [] Lab Test [Pump Type	ulfate:ppm n TDSmg/l umhos/cm	Give distances from sep other referer		Liner [] or Casing [] Diameter: From: To:				
[] Centrifugal [] Jet [] Submersi Capacity: ft. Intake Dept 0/05)	ble [] Turbine GPM: h:ft.	-	Driller's Name (print or t	ype); Kevin Re	effuse]

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