

Department of Environmental Protection

Jeb Bush Governor Southwest District 13051 North Telecom Parkway Temple Terrace, FL 33637-0926 Telephone: 813-632-7600

Colleen M. Castille Secretary

Mr. Dominic Iafrate Angelo's Aggregate Materials, Ltd. 1755 20th Ave. S.E. Largo, Fl. 33771 December 15, 2006

RE:

Enterprise Recycling & Disposal Class III Landfill

Permit Nos.: 177982-001-SC and 177982-002-SO, Pasco County

Certification of Construction Completion, Cell 4 (approximately 7.34 acres)

Dear Mr. Iafrate:

The Department has reviewed the Certification of Construction Completion for the Cell 4, prepared by John Arnold, P.E. dated and received October 27, 2006 and additional information dated and received November 22, 2006. Based on the information submitted, the Department <u>approves</u> the certification of construction completion of the 7.34 acres of Cell 4. Operation of Cell 4 shall be in accordance with Department Permit No. 177982-002-SO.

If you have any questions, you may contact me at (813) 632-7600 ext. 385.

Sincerely,

Steven G. Morgan Solid Waste Section

Southwest District

sgm cc:

John Arnold, P.E., 34924 Williams Cemetery Road, Dade City, Fl. 33525 Fred Wick, FDEP, Tallahassee Susan Pelz, P.E., FDEP Tampa, SW John Morris, P.G., FDEP Tampa, SW

Dept. of Environmental Protection

NOV 22 2006

November 22, 2006

Southwest District

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

RE: En

Enterprise Class III Landfill Cell 4 Construction Completion Report Request for Additional Information Angelo's Aggregate Materials, Ltd.

FDEP Permit Nos. 177982-001-SC and 177982-002-SO

Pasco County, Florida

Dear Ms. Pelz:

We received your correspondence dated November 16, 2006 requesting additional information (RAI) for certification of the referenced project. The additional information you've requested is provided herein. For clarification, we have repeated the Departments request (bold) with our response immediately following. We have provided three (3) original responses for your use and review.

Comment No.1: Please provide surveys that indicate which layer is included in the survey (i.e., subbase or top of confining/clay layer).

Response No.1: Signed and sealed drawings of both the "top of clay" and "top of subgrade" are provided in Attachment A of this response. The "subgrade" or "subbase" is the top of the excavation, prior to backfilling with clay. The "top of clay" is the top of the finished 3' clay layer.

Comment No. 2.a.: Please provide the laboratory reports for the permeability testing.

Response No. 2.a.: Universal Engineering Sciences, Inc. (Universal) has prepared a separate response to questions concerning their work as the Independent Construction Quality Assurance (CQA) Engineer for this project. Universals response and the requested laboratory reports for the permeability tests are provided in Attachment B.

Ms. Susan Pelz, P.E., Solid Waste Section Enterprise Road Class III Landfill RAI Page 2 of 3

Comment No. 2.b.: Please provide photographs that are numbered and correspond to the appropriate daily reports. Several of the reports referenced photographs that are not located with the report for that specific date.

Response No. 2.b.: Additional information from Universal, addressing this comment, is provided in Attachment B.

Comment No. 2.c.: The QA daily reports do not describe the activity observed, the occurrence of limestone or other problems encountered during construction. Some reports do not describe any observations, but only indicate "Cell #4."

Response No.2.c: Additional information from Universal, addressing this comment, is provided in Attachment B.

Comment No. 2.d.: The Department was notified on an occurrence of limestone encountered in June 2006 located at the central part near the eastern boundary. The notification indicated that the elevation of the limerock was from +84ft. to 95 ft. NGVD. Discussion of this limerock occurrence was not included in the QA report. Based on the surveys provided, it appears that this material was completely excavated during construction. Please provide photographs that demonstrate that the limestone in this area was completely excavated prior to placing the clay layer.

Response No. 2.d: Additional information from Universal, addressing this comment, is provided in Attachment B.

Comment No. 2.e.: Please provide the dates that the clay later was constructed for each of the grids shown in the Test Location Maps.

Response No. 2.e.: Additional information from Universal, addressing this comment, is provided in Attachment B.

Comment No. 2.g.: Please explain why no photographs were taken from 10/5/06 and 10/10/06.

Response No. 2.g.: Additional information from Universal, addressing this comment, is provided in Attachment B.

Ms. Susan Pelz, P.E., Soliu Waste Section Enterprise Road Class III Landfill RAI Page 3 of 3

We trust that this information completely answers the Departments RAI and would like to commence operations in the Cell 4 within 14 days from your receipt of this additional information. Please call me at 352.339.1408 if you have any questions or require any additional information.

Date: 11/22/06

47 64 3 34924 Williams Cemetery Road

THURST WITH Attachments

> John Morris, P.G., FDEP Dominic Infrate

Jeff Rogers

Attachment A

Top of Clay and Top of Subgrade Surveys

Enterprise Class III Landfill - Cell 4 Construction Completion

Response to the Departments November 16, 2006 Request for Additional Information

Attachment B

Universal Engineering Sciences, Inc. Report

Enterprise Class III Landfill – Cell 4 Construction Completion

Response to the Departments November 16, 2006 Request for Additional Information



November 22, 2006

Angelo's Aggregate Materials, Ltd. 1755 20th Avenue, S.E. Largo, Florida 33771

Attention:

Mr. Dominic lafrate

Reference:

Enterprise Recycling & Disposal Class III Landfill

Permit Nos.: 177982-001-SC & 177982-002-SO, Pasco County

Certification of Construction Completion, Cell #4

Pasco County, Florida

Dear Mr. lafrate:

We have reviewed the comments from the FDEP with respect to the letter dated November 16,2006 and have made the appropriate changes to Attachment C.

- a. Lab reports with the permeability testing has been included.
- b. Photographs have been numbered and located with the daily report.
- c. We have reviewed the QA daily reports. The reports indicate the observations of our technician while on the site. A few reports indicate the equipment was excavating to design grade without further explanation. No additional comments were recorded since the technician did not note any activity out of the ordinary.
- d. We notified the FDEP of the occurrence of limestone. We understood that the limestone would be over excavated, surveyed and backfilled with clay. We did not realize photographic documentation was necessary, thus we do not have any photographs.
- e. Dates of the clay layer construction has been added to the grids.
- f. The white material shown in photos was clay material.
- g. The technician accidently recorded over the digital photographs for the week of 10/05/06 through 10/10/06.

Please contact the undersigned if you have any further questions or require additional information.

UNIVERSAMENCINEERING SCIENCES, INC
Certificate of Authorization Number 549

MarkiKcHardy, P.E. Tampa Regional Marag

John Arnold P.E., Angelo's

CC:

9802 Palm River Road • Tampa, Fl 33619-4438 • (813) 740-8506 • Fax (813) 740-8706

9802 Palm River Road • Tampa, Fl 33619-4438 • (813) 740-8506 • Fax (813) 740-8706

CELL #4
SITE INSPECTION REPORTS
PICTURES
TEST RESULTS
TEST LOCATION MAPS

Project #: 80540-001-02

Prepared For:

Angelo's Aggregate Materials

Prepared By:

Universal Engineering Sciences 9802 Palm River Road Tampa, Florida 33619 (813) 740-8506

Reviewed By,

Universal Engineering Sciences, Inc.

Cert. of Authorization No. 20000549

Professional Engineer No. 572

Reissued 1.1/21/06



9802 Palm River Road · Tampa, FI 33619-4438 · (813) 740-8506 · Fax (813) 740-8706

Test Performed in Accordance with the Following Test procedures.

Density's - ASTM D-2397 Standard Proctor - ASTM D-698 200 Wash - AASHTO T-11 Permeability - ASTM D-2434

9802 Palm River Road · Tampa, FI 33619-4438 · (813) 740-8506 · Fax (813) 740-8706

Test Location Summary and Results Cell 4 / Lift 1

Location	Density	Moisture	Perm.	200 Wash	Atterburg
A - 1	107%	19.9%			
A - 2	104%	24.3%			
A - 3	107%	20.8%			
A - 4	104%	20.3%	10 -9	50.3	
A - 5	105%	22.3%			
A - 6	104%	21.7%	10 -9	51.5	
A - 7	101%	24.3%	10 -9	52.1	39
A - 8					
				·	<u> </u>
B - 1	104%	20.4%			
B - 2	102%	21.1%	10 -9	46.9	
B - 3	104%	20.7%			
B - 4	109%	21.1%			
B - 5	110%	21.7%	10 -9	52.8	
B - 6	110%	20.8%		<u> </u>	
B - 7	112%	19.8%			
B - 8	107%	21.1%	10 -9	62.9	52
C - 1	106%	20%	10 -9	49.6	
C - 2					
C - 3	106%	19.6%	10 -7	47.2	
C - 4	105%	21.7%			ļ
C - 5	105%	21.4%			
C - 6	108%	17.8%	10 -9	58.1	
C - 7	106%	17.5%			
C - 8					

^{*} Permeability reported in cm/s

Test Location Map Cell 4 / Lift 1

Α	Density 10/13/06	Density 9/29/06	Density 9/23/06	Density Perm. 9/23/06	Density 9/1/06	Density Perm. 9/1/06	Perm. Atterburg 9/1/06	9/1/2006
В	Density 10/13/06	Density Perm. 9/29/06	Density 9/23/06	Density 9/23/06	Density Perm. 9/13/06	Density 9/13/06	Density 9/13/06 Density	Density Perm. Atterburg 9/13/06
С	Density Perm. 10/13/06	10/13/2006	Density Perm. 10/11/06	Density 9/28/06	Density 9/28/06	Density Perm. 10/6/06	Density 10/6/06	10/6/2006



9802 Palm River Road · Tampa, FI 33619-4438 · (813) 740-8506 · Fax (813) 740-8706

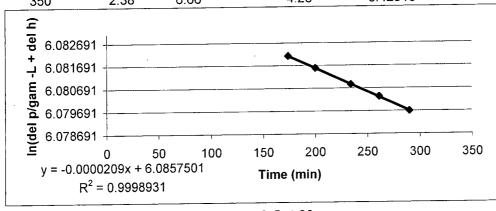
Project No:-**Project Name:-** 80540-001-02 Dade City Landfill

Sample Number :-

A-4/Cell 4

Depth of the Sample: Lift 1

Time (min) 10.33 am		Burette 3 vol. c.c	Del v c.c	Del h inches	y=del p/gam w - L + del h	In(y)
0	1.1	8.16	7.0	6 13.89761	441.9301	6.091152
39	1.3	7.48		8 12.16533	440.1979	6.087224
77	1.48	7.24			439.3711	6.085344
113	1.64	7.1			438.7805	6.083999
140	1.74	7	5.2		438.3868	6.083102
174	1.88	6.92			437.9538	6.082113
200	1.96				437.7176	6.081574
234	2.08				437.4026	6.080854
261	2.16				437.1664	6.080314
290					436.8908	6.079683
320	-				436.6939	6.079233
350					3 436.4577	6.078691



Date of test setup :-

9-Oct-06

Sample length:-

10.2 cm

Sample cross sectional area :-

41.061 cm^2

Burette cross sectional area:-

0.2 cm2

Cell pressure :-

22.45 psi

Back pressure:-

16.04 psi

Burette 3:-

vent

Slope of the Best Fit Line :-

K=

0.0000209

K=

5.19179E-07 cm/min

8.65298E-09 cm/sec

K=

2.45281E-05 ft/day



9802 Palm River Road · Tampa, FI 33619-4438 · (813) 740-8506 · Fax (813) 740-8706

Project No :-

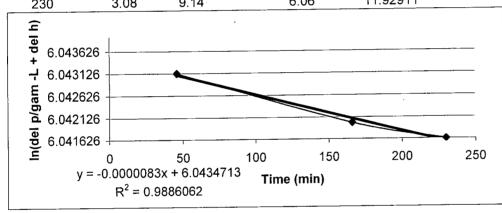
80540-001-02

Project Name:-Sample Number :- Dade City Landfill

Depth of the Sample: Lift 1

A-7/Cell 4

Time (min Bure		Burette 3 vol. c.c	Del v c.c	Del h inches		y=del p/gam w - L + del h	ln(y)
0 46 166 230	2.78 2.9 3.04 3.08	9.34 9.28 9.18 9.14		6.56 6.38 6.14 6.06	12.91336 12.55903 12.08659 11.92911	421.2064 420.7339	6.043964 6.043123 6.042001 6.041626
el h)			•				



Date of test setup :-

18-Sep-06

Sample length:-

9.21 cm

Sample cross sectional area:-

41.061 cm^2

Burette cross sectional area:-

0.2 cm2

Cell pressure :-

19.71 psi

Back pressure:-

15.34 psi

Burette 3:-

vent

Slope of the Best Fit Line :-

0.0000083

K=

1.86169E-07 cm/min

K=

3.10282E-09 cm/sec

K=

8.7954E-06 ft/day



9802 Palm River Road · Tampa, Fl 33619-4438 · (813) 740-8506 · Fax (813) 740-8706

Project No :-

80540-001-02

Project Name:-

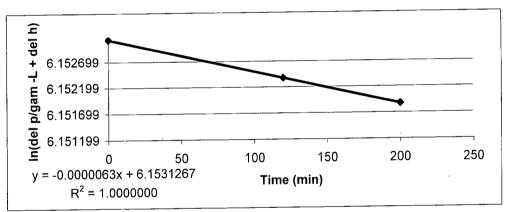
Dade City Landfill

Sample Number :-

A-6/Cell 4

Depth of the Sample: Lift 1

Time (min Burette 10.33 am vol c.c	2	Burette 3 vol. c.c	Del v c.c		elh ches	y=del p/gam w - L + del h	ln(y)
0 120 200 340	2.1 2.22 2.3 2.4	8.22		6.22 6.04 5.92 5.76	12.24407 11.88974 11.65352 11.33856	469.8309 469.5947	6.153127 6.152373 6.15187 6.151199



Date of test setup :-

19-Sep-06

Sample length:-

8.6 cm

Sample cross sectional area :-

41.061 cm²

Burette cross sectional area :-

0.2 cm2

Cell pressure :-

22.2 psi 17.12 psi

Back pressure:-

Burette 3:-

vent

Slope of the Best Fit Line :-

0.0000063

1.3195E-07 cm/min

K=

2.19917E-09 cm/sec

K=

K=

6.23386E-06 ft/day



9802 Palm River Road · Tampa, FI 33619-4438 · (813) 740-8506 · Fax (813) 740-8706

Project No :-

80540-001-02

Project Name:-

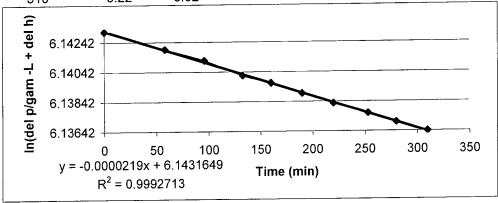
Dade City Landfill

Sample Number :-

B-2/Cell 4

Depth of the Sample :- Lift 1

Time (min 10.33 am		Burette 3 vol. c.c	Del v c.c	Del h inches		y=del p/gam w - L + del l	ln(y)
. 0	4.46	7.74	;	3.28	6.45668	465.5056	6.143124
58	4.6	7.6		3	5.9055	464.9544	6.141939
96	4.7	7.52		2.82	5.55117	464.6	6.141177
133	4.8	7.38		2.58	5.07873	464.1276	6.14016
160	4.86	7.32		2.46	4.84251	463.8914	6.13965
190	4.94	7.24		2.3	4.52755	463.5764	6.138971
220	5.02	7.16		2.14	4.21259	463.2615	
253	5.1	7.08		1.98	3.89763	462.9465	
280	5.16	7		1.84	3.62204	462.6709	6.137016
310	5.22			1.7	3.34645	462.3953	6.13642



Date of test setup :-

9-Oct-06

Sample length :-

10.2 cm

Sample cross sectional area :-

41.061 cm^2

Burette cross sectional area :-

0.2 cm2

Cell pressure :-

23.74 psi

Back pressure:-

17.16 psi

Burette 3:-

vent

Slope of the Best Fit Line :-

0.0000219

K=

5.4402E-07 cm/min

K=

9.067E-09 cm/sec

K=

2.57017E-05 ft/day



9802 Palm River Road · Tampa, Fl 33619-4438 · (813) 740-8506 · Fax (813) 740-8706

Project No :-

80540-001-02

Project Name :-

Dade City Landfill

Sample Number :-Denth of the Sample :- Lift 1

B-5/Cell 4

Dopui	٠.	 oup.o	-	 -

Time (min Burette 2 10.33 am vol c.c	Burette 3 I	Del v c.c	Del h inches	y=del p/gam w - L + del h	In(y)
0 0.62 60 0.66 180 0.74 240 0.78 (q lep + 6.187058	7.5 7.44 7.4 7.4	6.92 6.84 6.7 6.62	13.46454 13.18895	486.36 486.0844 485.9269	6.186949 6.186382
$y = -0.0000049x + R^2 = 0.9988$		Time (mii	n)		

Date of test setup :-

4-Oct-06

Sample length :-

10.2 cm

Sample cross sectional area :-

41.061 cm^2

Burette cross sectional area:-

0.2 cm2

Cell pressure :-

22.08 psi

Back pressure:-

17.66 psi

Burette 3:-

vent

Slope of the Best Fit Line :-

0.0000049

K=

1.21721E-07 cm/min

K=

2.02869E-09 cm/sec

K=

5.75061E-06 ft/day



9802 Palm River Road · Tampa, Fl 33619-4438 · (813) 740-8506 · Fax (813) 740-8706

Project No :-

80540-001-02

Project Name:-

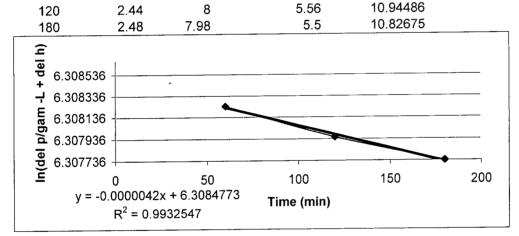
Dade City Landfill

Sample Number :-Depth of the Sample :- Lift 1

B-8/Cell 4

Time (min Buret 10.33 am vol c.c		Irette 3 Del v	Del incl		y=del p/gam w - L + del h	ln(y)
0 60	2.34 2.4	8.1 8.04	5.76 5.64	11.33856 11.10234		

549.3129 6.308668 6.308238 549.0767 548.9192 6.307951 548.8011 6.307736



Date of test setup :-

25-Sep-06

Sample length :-

10.2 cm

Sample cross sectional area :-

41.061 cm^2

Burette cross sectional area :-

0.2 cm2

Cell pressure :-

25.08 psi

Back pressure:-

20.01 psi

Burette 3:-

vent

Slope of the Best Fit Line :-

0.0000042

K=

1.04333E-07 cm/min

K⋍

1.73888E-09 cm/sec

K=

4.9291E-06 ft/day



9802 Palm River Road · Tampa, Fl 33619-4438 · (813) 740-8506 · Fax (813) 740-8706

Project No :-

80540-001-02

Project Name:-

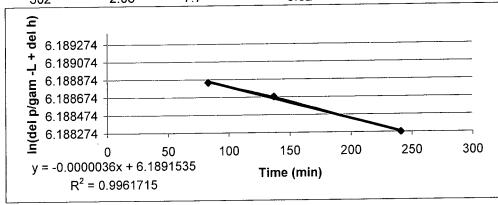
Dade City Landfill

Sample Number :-

C-1/Cell 4

Depth of the Sample :- Lift 1

Time (min Bui 10.33 am vol		Burette 3 vol. c.c	Del v c.c	_	Del h nches	y=del p/gam w - L +	del h l	n(y)
0	1.6	7.5		5.9	11.61415			6.189405
83	1.8	7.56		5.76	11.33856			6.188839
137	1.88	7.6		5.72	11.25982	487	.2015	6.188678
241	2.02	7.64		5.62	11.06297	487	.0047	6.188274
302	2.08	7.7		5.62	11.06297	487	.0047	6.188274



Date of test setup :-

11-Sep-06

Sample length :-

8.9 cm

Sample cross sectional area :-

41.061 cm²

Burette cross sectional area :-

0.2 cm2

Cell pressure :-

24.21 psi

Back pressure:-

17.77 psi

vent

Burette 3:-

Slope of the Best Fit Line :-

0.000036

K=

7.80302E-08 cm/min

K=

1.3005E-09 cm/sec

K=

3.68647E-06 ft/day



9802 Palm River Road · Tampa, FI 33619-4438 · (813) 740-8506 · Fax (813) 740-8706

Project No:-

80540-001-02

Project Name:-

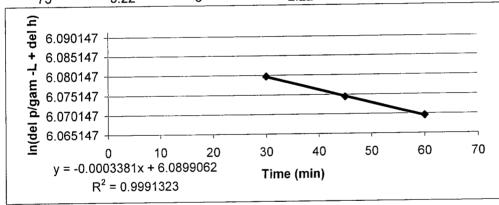
Dade City Landfill

Sample Number :-

C-3/Cell 4

Depth of the Sample :- Lift 1

Time (min Burett 10.33 am vol c.c		Burette 3 vol. c.c	Del v c.c	_	Del h nches	y=del p/gam w - L + del h	ln(y)
0 15 30 45 60 75	2.6 3.18 3.72 4.26 4.74 5.22	5.44 4.74 4.1 3.52		3.64 2.26 1.02 -0.16 -1.22 -2.22	7.16534 4.44881 2.00787 -0.31496 -2.40157 -4.37007	439.4046 436.9637 434.6409 432.5543	6.091584 6.085421 6.07985 6.07452 6.069708 6.065147
्रि) 6.090147	' 						



Date of test setup :-

16-Oct-06

Sample length :-

10.2 cm

Sample cross sectional area :-

41.061 cm^2

Burette cross sectional area :-

0.2 cm2

Cell pressure :-

22.1 psi

Back pressure:-

16.29 psi

Burette 3:-

vent

0.0003381

Slope of the Best Fit Line :-

K= K= 8.39877E-06 cm/min

1.3998E-07 cm/sec

K=

0.000396792 ft/day



9802 Palm River Road · Tampa, FI 33619-4438 · (813) 740-8506 · Fax (813) 740-8706

Project No :-

80540-001-02

Project Name:-

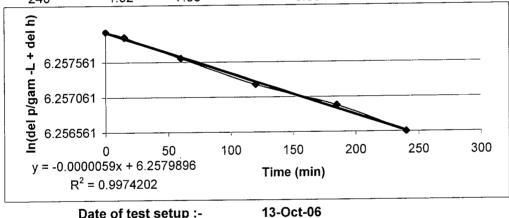
Dade City Landfill

Sample Number :-

C-6/Cell 4

Depth of the Sample :- Lift 1

Time (min) 10.33 am		Burette 3 vol. c.c	Del v c.c	De inc	i h hes	y=del p/gam w - L + del h	ln(y)
0	1.7	7.74		6.04	11.88974	522.171	6.257995
15	1.72			6.02	11.85037	522.1316	6.25792
60	1.76			5.94	11.69289	521.9741	6.257618
120	1.82			5.84	11.49604	521.7773	6.257241
185	1.86			5.76	11.33856	521.6198	6.256939
240	1.92	7.58		5.66	11.14171	521.4229	6.256561



Date of test setup :-

Sample length :-

10.2 cm

Sample cross sectional area :-

41.061 cm^2

Burette cross sectional area :-

0.2 cm2

Cell pressure :-

28.5 psi

Back pressure:-

19.01 psi

Burette 3:-

vent

0.0000059

Slope of the Best Fit Line :-K=

1.46562E-07 cm/min

K=

2.44271E-09 cm/sec

K=

6.92421E-06 ft/day

9802 Palm River Road · Tampa, Fl 33619-4438 · (813) 740-8506 · Fax (813) 740-8706

Test Location Summary and Results Cell 4 / Lift 2

Location	Density	Moisture	Perm.	200 Wash	Atterburg
A - 1	108%	18.6%			
A - 2	105%	24.6%		_	
A - 3	108%	20.2%	10 -8	50.7	
A - 4	109%	20.8%			
A - 5			10 -9	53.4	36
A - 6	103%	24.3%	10 -9	42.8	
A - 7	106%	19.9%			
A - 8	106%	20.4%	10 -9	54.1	
	-				
B - 1	112%	19.2%	10 -8		
B - 2	106%	21.7%			
B - 3	111%	21%			
B - 4	107%	19.9%	10 -9	65.7	
B - 5	110%	20%			<u></u>
B - 6	111%	21%			
B - 7	108%	24.3%	10 -9	56.7	34
B - 8	109%	21.5%			
C - 1	109%	18.8%			
C - 2	115%	18.8%	10 -8	41.2	
C - 3					
C - 4	107%	17%			
C - 5	108%	18%	10 -8	53.5	
C - 6	107%	17.2%			
C - 7					
C - 8	109%	16.9%	10 -7		

^{*} Permeability reported in cm/s

Test Location Map Cell 4 / Lift 2

С	Density 10/18/06	Density Perm. 10/11/06	10/11/2006	Density 10/6/06	Density Perm. 10/6/06	Density 10/6/06	10/6/2006	Density Perm. 10/6/06
В	Density Perm. 10/18/06	Density 9/29/06	Density 9/23/06	Density Perm. 9/23/06	Density 9/13/06	Density 9/13/06	Density Perm. Atterburg 9/13/06	Density 9/13/06
Α	Density 10/18/06	Density 9/29/06	Density Perm. 9/23/06	Density Perm. 9/23/06	Density Perm. 9/5/06	Density Perm. 9/5/06	Density 9/5/06	Density Perm. 9/5/06
	1	2	3	4	5	6	7	8



9802 Palm River Road • Tampa, FI 33619-4438 • (813) 740-8506 • Fax (813) 740-8706

Project No :-

80540-001-02

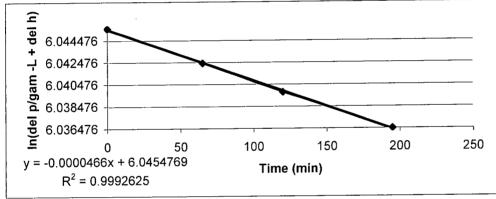
Project Name:-

Dade City Landfill

Sample Number :-Depth of the Sample :- Lift 2

A-3/Cell 4

Time (min Burette 10.33 am vol c.c		Burette 3 vol. c.c	Del v c.c	Del incl		y=del p/gam w - L + del	h In(y)
0	2.1	4.36		2.26	4.44881	422.234	9 6.045562
65	2.58	4.16		1.58	3.11023	420.896	-
120	2.92	3.94		1.02	2.00787	419.793	9 6.039764
195	3.34	3.66		0.32	0.62992	418.41	6.036476



Date of test setup :-

5-Oct-06

Sample length:-

10.2 cm

Sample cross sectional area :-

41.061 cm²

Burette cross sectional area :-

0.2 cm2

Cell pressure :-

22.25 psi

Back pressure:-

15.67 psi

Burette 3:-

vent

Slope of the Best Fit Line :-

0.0000466

K=

1.15759E-06 cm/min

K=

1.92932E-08 cm/sec

K=

5.46895E-05 ft/day



9802 Palm River Road · Tampa, FI 33619-4438 · (813) 740-8506 · Fax (813) 740-8706

Project No :-

80540-001-02

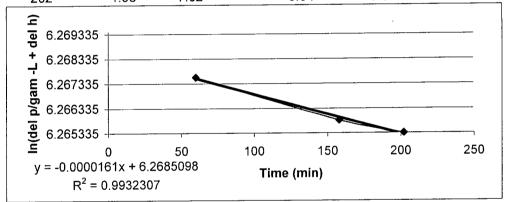
Project Name:-

Dade City Landfill

Sample Number :-Depth of the Sample: Lift 2

A-5/Cell 4

Time (min Buret 10.33 am vol c.		Burette 3 vol. c.c	Del v c.c	De l	l h hes	y=del p/gam w - L + del h	In(y)
0	1.42	7.56		6.14	12.08659	528.1834	6.269444
60	1.66			5.64	11.10234	527.1991	6.267578
158	1.9			5.18	10.19683	526.2936	6.265859
202	1.98			5.04	9.92124	526.018	6.265335



Date of test setup :-

14-Sep-06

Sample length :-

8.89 cm

Sample cross sectional area :-

41.061 cm²

Burette cross sectional area:-

0.2 cm2

Cell pressure :-

24.83 psi

Back pressure:-

19.22 psi

vent

Burette 3:-

0.0000161

Slope of the Best Fit Line :-

3.48577E-07 cm/min

K= K=

5.80961E-09 cm/sec

K=

1.64682E-05 ft/day



9802 Palm River Road · Tampa, FI 33619-4438 · (813) 740-8506 · Fax (813) 740-8706

Project No :-

80540-001-02

Project Name:-

Dade City Landfill

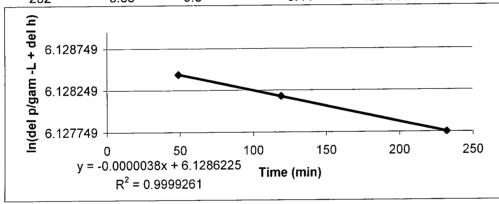
Sample Number :-

A-6/Cell 4

Depth of the Sam	ple	:-	l
------------------	-----	----	---

Lift 2

Time (min Bure 10.33 am vol c		Burette 3 vol. c.c	Del v c.c		e l h ches	y=del p/gam w - L + del h	in(y)
0	3.76	9.48		5.72	11.25982	458.9545	6.128951
49	3.8	9.4		5.6	11.0236	458.7183	6.128436
119	3.82	9.36		5.54	10.90549	458.6002	6.128179
232	3.86	9.3		5.44	10.70864	458.4033	6.127749



Date of test setup :-

18-Sep-06

Sample length :-

10.2 cm

Sample cross sectional area :-

41.061 cm^2

Burette cross sectional area :-

0.2 cm2

Cell pressure :-

20.3 psi

Back pressure:-

16.75 psi

Burette 3:-

vent

Slope of the Best Fit Line :-

0.0000038

K=

9.43961E-08 cm/min

K=

1.57327E-09 cm/sec

K=

4.45966E-06 ft/day



9802 Palm River Road · Tampa, Fl 33619-4438 · (813) 740-8506 · Fax (813) 740-8706

Project No :-

80540-001-02

Project Name :-

Dade City Landfill

Sample Number :-

A-8/Cell 4

Depth of the Sample :- Lift 2

Time (min Bure 10.33 am vol c.		urette 3 I	Del v c.c	Del h inche		y=del p/gam	w - L + del h	ln(y)
0 167 230	1.2 1.36 1.42	9.04 8.46 8.3		7.84 7.1 6.88	15.43304 13.97635 13.54328		447.6195 446.1629 445.7298	6.103944 6.100684 6.099713
(4) (9) 6.1037								
E 6 .1027′ E 6 .1017′ J. 6.1007′	13							
9 6.0997	13 + 0 0 = -0.000018	50 36x + 6.103	100 39116 Time	150 e (min)	200	250		

Date of test setup :-

18-Sep-06

Sample length :-

 $R^2 = 0.9977607$

9.21 cm

Sample cross sectional area :-

41.061 cm²

Burette cross sectional area :-

0.2 cm2

Cell pressure :-

20.75 psi

Back pressure:-

16.19 psi

Burette 3:-

vent

Slope of the Best Fit Line :-

0.0000186

4.17199E-07 cm/min

K= K=

6.95331E-09 cm/sec

K=

1.97102E-05 ft/day



9802 Palm River Road • Tampa, FI 33619-4438 • (813) 740-8506 • Fax (813) 740-8706

Project No :-

80540-001-02

Project Name:-

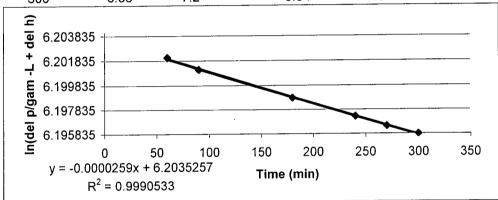
Dade City Landfill

Sample Number :-

B-1/Cell 4

Depth of the Sample :- Lift 2

11110 (111111 = 2110110 =		Burette 3 Del v vol. c.c c.c			Del h nches	y=del p/gam w - L + del h ln(y)	
0	1.62	7.54		5.92	11.65352	494.7954	6.204144
60	2.06	7.46		5.4	10.6299	493.7718	6.202074
90	2.26			5.16	10.15746	493.2994	6.201116
180	2.74			4.58	9.01573	492.1577	6.198799
240	3.06			4.2	8.2677	491.4096	6.197278
270	3.22			4	7.874	491.0159	6.196477
300	3.36			3.84	7.55904	490.701	6.195835



Date of test setup :-

24-Oct-06

Sample length:-

10.16 cm

Sample cross sectional area :-

41.061 cm²

Burette cross sectional area :-

0.2 cm2

Cell pressure :-

22.75 psi

Back pressure:-

18.03 psi

Burette 3:-

vent

Slope of the Best Fit Line :-

0.0000259

K=

6.40861E-07 cm/min

K=

1.0681E-08 cm/sec

K=

3.02769E-05 ft/day



9802 Palm River Road · Tampa, FI 33619-4438 · (813) 740-8506 · Fax (813) 740-8706

Project No :-

80540-001-02

Project Name:-

Dade City Landfill

Sample Number :-

B-4/Cell 4

Depth of the Sample :- Lift 2

Time (min E 10.33 am v		Burette 3 vol. c.c	Del v		Del h nches	y=	edel p/gam w
0 190 265	1.44 2.24 2.48	6.74		5.36 4.5 4.22	8.8	55116 35825 30707	
+ 6.0 6.0 6.0 6.0 6.0	11733 10733 09733 08733 07733 06733						
	$y = -0.000021$ $R^2 = 0$	50 0x + 6.0122 .9984275	100 065	150 Time (min)	200	250	300

Date of test setup :-

4-Oct-06

Sample length :-

10.2 cm

Sample cross sectional area :-

41.061 cm²

y=del p/gam w - L + del h ln(y)

408.3982 6.012243 406.7052 6.008089 406.1541 6.006733

Burette cross sectional area :-

0.2 cm2

Cell pressure :-

22.1 psi

Back pressure:-

14.95 psi

Burette 3:-

vent

Slope of the Best Fit Line :-

0.000021

K=

5.21663E-07 cm/min

K=

8.69438E-09 cm/sec

K=

2.46455E-05 ft/day



9802 Palm River Road · Tampa, FI 33619-4438 · (813) 740-8506 · Fax (813) 740-8706

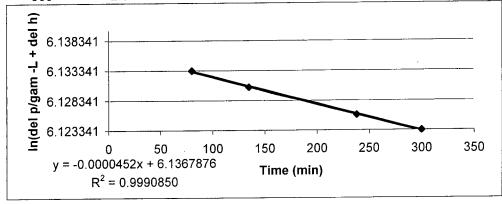
Project No :-Project Name :- 80540-001-02 Dade City Landfill

Sample Number :-

B-7/Cell 4

Depth of the Sample :- Lift 2

		_	Burette 3 Del v Del h rol. c.c c.c inches			y=del p/gam w - L + del h ln(y)		
0	1.66	6.76		5.1	10.03935	464.1035	6.140107	
80				3.5	6.88975	460.9539	6.133298	
135				2.86	5.62991	459.694	6.130561	
238				1.78	3.50393	457.568	6.125926	
300		4.1		1.18	2.32283	456.3869	6.123341	
Ê								



Date of test setup :-

11-Sep-06

Sample length:-

7.6 cm

Sample cross sectional area :-

41.061 cm^2

Burette cross sectional area :-

0.2 cm2

Cell pressure :-Back pressure:- 25.14 psi

16.98 psi

Burette 3:-

vent

Slope of the Best Fit Line :-

0.0000452

K=

8.36609E-07 cm/min

K=

1.39435E-08 cm/sec

K=

3.95248E-05 ft/day



9802 Palm River Road · Tampa, Fl 33619-4438 · (813) 740-8506 · Fax (813) 740-8706

Project No :-

80540-001-02

Project Name :-

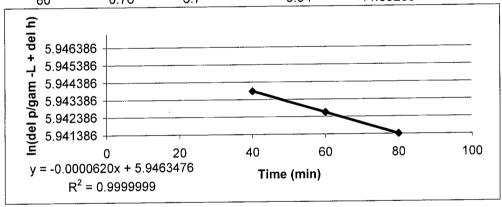
Dade City Landfill

Sample Number :-

C-2/Cell 4

Depth of the Sample :- Lift 2

Time (min E 10.33 am v		Burette 3 vol. c.c	Del v c.c	_)el h nches	y=del p/gam w - L + del l	ı ln(y)
0	0.46	7.52		7.06	13.89761	382.6668	5.947165
20	0.52			6.8	13.3858	382.155	5.945826
40	0.58			6.42	12.63777	381.4069	5.943867
60	0.66			6.18	12.16533	380.9345	5.942627
80	0.76			5.94	11.69289	380.4621	5.941386



Date of test setup :-

16-Oct-06

Sample length :-

10.2 cm

Sample cross sectional area :-

41.061 cm²

Burette cross sectional area :-

0.2 cm2

Cell pressure :-

22.1 psi

Back pressure:-

13.9 psi

Burette 3:-

vent

Slope of the Best Fit Line :-

0.000062

K=

1.54015E-06 cm/min

K=

2.56691E-08 cm/sec

K=

7.27629E-05 ft/day



9802 Palm River Road • Tampa, FI 33619-4438 • (813) 740-8506 • Fax (813) 740-8706

Project No:-

80540-001-02

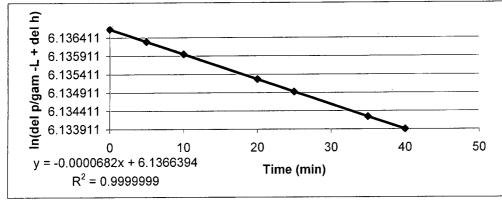
Project Name:-

Dade City Landfill

Sample Number :-

C-5/Cell 4 Depth of the Sample :- Lift 2

Time (min 10.33 am		Burette 3 vol. c.c	Del v c.c		Del h inches	y=del p/gam w - L + del h	ln(y)
0	0.54	8.2		7.66	15.07871	462.4965	6.136639
5	0.6	8.18		7.58	14.92123	462.339	6.136298
10	0.66	8.16		7.5	14.76375	462.1815	6.135958
20	0.76	8.1		7.34	14.44879	461.8665	6.135276
25	0.8	8.06		7.26	14.29131	461.7091	6.134935
35	0.9	8		7.1	13.97635	461.3941	6.134253
40	0.94	7.96		7.02	13.81887	461.2366	6.133911



Date of test setup :-

12-Oct-06

Sample length :-

10.2 cm

Sample cross sectional area :-

41.061 cm²

Burette cross sectional area :-

0.2 cm2

Cell pressure :-

22.04 psi

Back pressure:-

16.74 psi

Burette 3:-

vent

Slope of the Best Fit Line :-

0.0000682

K=

1.69416E-06 cm/min

K=

2.8236E-08 cm/sec

K=

8.00392E-05 ft/day



9802 Palm River Road • Tampa, FI 33619-4438 • (813) 740-8506 • Fax (813) 740-8706

Project No :-

80540-001-02

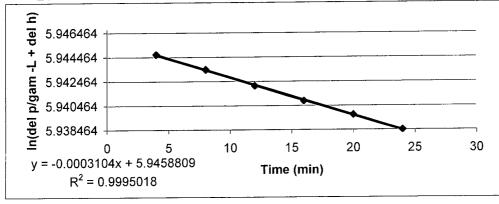
Project Name:-

Dade City Landfill

Sample Number :-Depth of the Sample :- Lift 2

C-8/Cell 4

Time (min 10.33 am		Burette 3 vol. c.c	Del v c.c	De inc	l h hes	y=del p/gam w - L + del h	ln(y)
0	0.58	8.4		7.82	15.39367	382.5013	5.946732
4	0.76	8.18		7.42	14.60627	381.7139	5.944671
8	0.9	8.08		7.18	14.13383	381.2414	5.943433
12		7.96		6.92	13.62202	380.7296	5.942089
16	1.16	7.84		6.68	13.14958	380.2572	5.940848
20		7.74		6.46	12.71651	379.8241	5.939708
24	1.4	7.62		6.22	12.24407	379.3517	5.938464



Date of test setup :-

12-Oct-06

Sample length :-

10.2 cm

Sample cross sectional area :-

41.061 cm²

Burette cross sectional area :-

0.2 cm2

Cell pressure :-

20.26 psi

Back pressure:-

13.84 psi

Burette 3:-

vent

Slope of the Best Fit Line :-

0.0003104

K= K= 7.71067E-06 cm/min

1.28511E-07 cm/sec

K=

0.000364284 ft/day

9802 Palm River Road · Tampa, FI 33619-4438 · (813) 740-8506 · Fax (813) 740-8706

Test Location Summary and Results Cell 4 / Lift 3

Location	Density	Moisture	Perm.	200 Wash	Atterburg
A - 1	115%	17.2%			
A - 2	107%	18.8%	10 -9	46.7	
A - 3					
A - 4	107%	20.8%			
A - 5	106%	21.7%	10 -9	59.8	
A - 6	106%	21.4%			38
A - 7	106%	21%		ļ	
A - 8	106%	20%	10 -9	52.8	
B - 1	113%	17.9%			
B - 2	108%	19.1%		. <u>.</u>	
B - 3	105%	21.7%	10 -9	60.6	20
B - 4	106%	19.9%			
B - 5	104%	24.3%			
B - 6	104%	21.7%	10 -9	65.4	
B - 7	108%	24.5%			
B - 8	106%	22.3%			
C - 1	115%	17.5%	10 -9		
C - 2	108%	20%			
C - 3					
C - 4	107%	17.8%	10 -8	55.2	
C - 5					
C - 6	104%	17.3%			
C - 7	105%	17.2%	10 -7	47.5	
C - 8	107%	17.9%			

^{*} Permeability reported in cm/s

Test Location Map Cell 4 / Lift 3

С	Density Perm. 10/19/06	Density 10/11/06	10/11/2006	Density Perm. 10/6/06	10/6/2006	Density 10/6/06	Density Perm 10/6/06	Density 10/6/06
В	Density 10/19/06	Density 9/26/06	Density Perm. 9/26/06	Density 9/26/06	Density Atterburg 9/13/06	Density Perm. 9/13/06	Density 9/13/06	Density 9/13/06
Α	Density 10/19/06	Density Perm. 9/26/06	9/26/06	Density 9/26/06	Density Perm. 9/5/06	Density Atterburg 9/5/06	Density 9/5/06	Density Perm. 9/5/06
	1	2	3	4	5	6	7	8



9802 Palm River Road • Tampa, FI 33619-4438 • (813) 740-8506 • Fax (813) 740-8706

Project No :-

80540-001-02

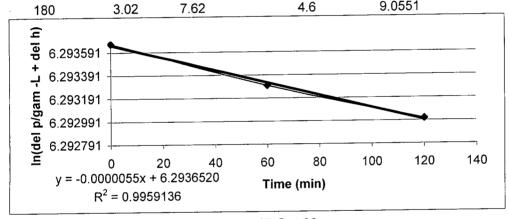
Project Name :-

Dade City Landfill

Sample Number :-Depth of the Sample: Lift 3

A-2/Cell 4

Time (min Bure 10.33 am vol c		Burette 3 Del v	Del h inches	•	y=del p/gam w - L + del h	ln(y)
0	2.88	7.72	4.84	9.52754	541.1325	6.293664
0 60	2.94	7.68	4.74	9.33069	540.9356	6.2933
120	2.98	7.64	4.66	9.17321	540.7782	6.293009
120	2.50	7.04	4.0	0.0551	540 6601	6 292791



Date of test setup :-

17-Oct-06

Sample length :-

10.2 cm

Sample cross sectional area:-

41.061 cm²

Burette cross sectional area:-

0.2 cm2

Cell pressure :-

25.21 psi

Back pressure:-

19.78 psi

Burette 3:-

vent

Slope of the Best Fit Line :-

0.0000055

K=

1.36626E-07 cm/min

K=

2.2771E-09 cm/sec

K=

6.45477E-06 ft/day



9802 Palm River Road • Tampa, Fl 33619-4438 • (813) 740-8506 • Fax (813) 740-8706

Project No :-

80540-001-02

Project Name :-

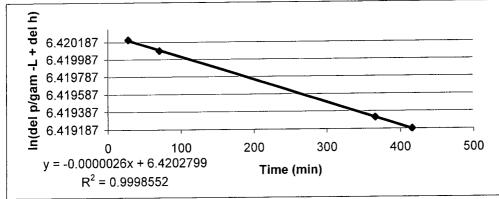
Dade City Landfill

Sample Number :-

A-5/Cell 4

Depth of the Sample :- Lift 3

Time (min Bur 10.33 am voi		Burette 3 Del v vol. c.c c.c	Del incl		y=del p/gam w - L + del n	in(y)
0	0.98	8.9	7.92	15.59052		6.420342
28	1	8.88	7.88	15.51178		6.420213
71	1.04	8.88	7.84	15.43304		6.420085
366	1.2	8.8	7.6	14.9606		6.419316
416	1.22		7.56	14.88186	613.5043	6.419187
(q 19 6 420	187					



Date of test setup :- 14-Sep-06

Sample length:- 10.16 cm

Sample cross sectional area :- 41.061 cm² Burette cross sectional area :- 0.2 cm²

Cell pressure:- 25.16 psi Back pressure:- 22.2 psi

Burette 3:- vent

Slope of the Best Fit Line :- 0.0000026

K= 6.43336E-08 cm/min K= 1.07223E-09 cm/sec K= 3.03938E-06 ft/day



9802 Palm River Road · Tampa, FI 33619-4438 · (813) 740-8506 · Fax (813) 740-8706

Project No :-

80540-001-02

Project Name:-

Dade City Landfill

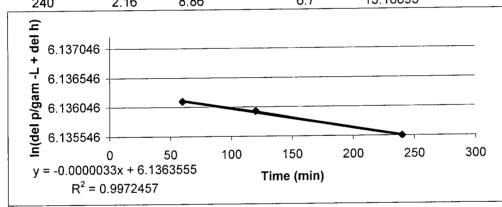
Sample Number :-

A-8/Cell 4

Depth of the Sample :-

Lift	3
------	---

Time (min Bure 10.33 am vol c		Burette 3 vol. c.c	Del v c.c		I h hes	y=del p/gam w - L + del h	in(y)
0	2.02	9.12		7.1	13.97635		6.137249
60	2.1			6.84	13.46454		6.136143
120	2.12	8.92		6.8	13.3858		6.135972
240	2.16	8.86		6.7	13.18895	461.9914	6.135546
<u> </u>							



Date of test setup :-

18-Sep-06

Sample length :-

10.2 cm

Sample cross sectional area :-

41.061 cm^2

Burette cross sectional area :-

0.2 cm2

Cell pressure :-

22.15 psi

Back pressure:-

16.79 psi

Burette 3:-

vent

Slope of the Best Fit Line :-

0.0000033

K=

8.19756E-08 cm/min

K=

1.36626E-09 cm/sec

K=

3.87286E-06 ft/day



9802 Palm River Road · Tampa, FI 33619-4438 · (813) 740-8506 · Fax (813) 740-8706

Project No :-

80540-001-02

Project Name:-

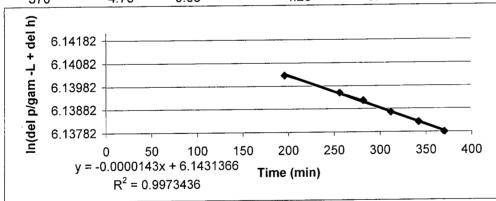
Dade City Landfill

Sample Number :-

B-3/Cell 4

Depth of the Sample: Lift 3

Time (min Burette 2 10.33 am vol c.c		Burette 3 vol. c.c			y=del p/gam w - L + del h ln(y)		
0	4.1	9.4	5	.3	10.43305	465.051	6.142147
60	4.28			2	10.07872	464.6967	6.141385
99	4.36)4	9.92124	464.5392	6.141046
135	4.42			8	9.80313	464.4211	6.140792
160	4.46			94	9.72439	464.3424	6.140622
196	4.52			36	9.56691	464.1849	6.140283
256	4.62			88	9.21258	463.8305	6.139519
282	4.66			.6	9.0551	463.6731	6.13918
312	4.7				8.81888	463.4368	6.13867
342	4.74				8.62203	463.24	6.138245
370	4.78				8.42518		6.13782



Date of test setup :-

9-Oct-06

Sample length:-

10.2 cm

Sample cross sectional area :-

41.061 cm^2

Burette cross sectional area:-

0.2 cm2

Cell pressure :-

22.27 psi

Back pressure:-

17 psi

Burette 3:-

vent

Slope of the Best Fit Line :-

0.0000143

K=

3.55228E-07 cm/min

K=

5.92046E-09 cm/sec

K=

1.67824E-05 ft/day



9802 Palm River Road · Tampa, FI 33619-4438 · (813) 740-8506 · Fax (813) 740-8706

Project No :-

80540-001-02

Project Name:-

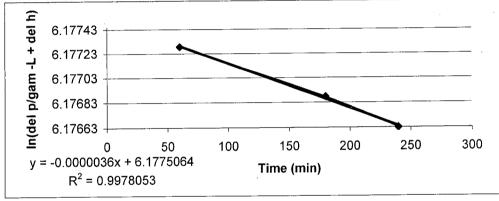
Dade City Landfill

Sample Number :-

B-6/Cell 4

Depth of the Sample: Lift 3

Time (min Burette 10.33 am vol c.c		Burette 3 /ol. c.c	Del v c.c	Del inch		y=del p/gam w - L + del h	in(y)
0	0.38	8.26		7.88	15.51178		6.177448
60	0.4	8.24		7.84 7.74	15.43304 15.23619		6.177284 6.176876
180 240	0.42 0.44	8.16 8.12		7.74 7.68	15.23019		6.17663
<u>व</u> क 6.17743							



Date of test setup :-

4-Oct-06

Sample length :-

10.2 cm

Sample cross sectional area :-

41.061 cm^2

Burette cross sectional area :-

0.2 cm2

Cell pressure :-

22.1 psi

Back pressure:-

17.42 psi

Burette 3:-

vent

Slope of the Best Fit Line :-

0.0000036

K=

8.94279E-08 cm/min

K=

1.49047E-09 cm/sec

K=

4.22494E-06 ft/day



9802 Palm River Road · Tampa, FI 33619-4438 · (813) 740-8506 · Fax (813) 740-8706

Project No :-

80540-001-02

Project Name:

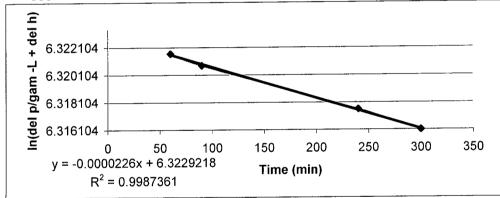
Dade City Landfill

Sample Number :-

C-1/Cell 4

Depth of the Sample :- Lift 3

Time (min) 10.33 am		Burette 3 vol. c.c	Del v c.c		Del h nches	y=del p/gam w - L + del h	ıln(y)
. 0	0.22	9.56		9.34	18.38579	557.4679	6.323405
30	0.38			9.06	17.83461	556.9167	
60	0.48	9.32		8.84	17.40154		6.321638
90	0.6	9.2		8.6	16.9291	556.0112	6.320788
240	1.06	8.76		7.7	15.15745	554.2396	6.317597
300	1.26	8.54		7.28	14.33068	553.4128	6.316104



Date of test setup :-

24-Oct-06

Sample length :-

10.2 cm

Sample cross sectional area:-

41.061 cm²

Burette cross sectional area:

0.2 cm2

Cell pressure :-

25.83 psi

Back pressure:-

20.05 psi

Burette 3 :-

vent

Slope of the Best Fit Line :-

0.0000226

K=

5.61409E-07 cm/min

K=

9.35681E-09 cm/sec

0.0000 E 05 64d---

K=

2.65232E-05 ft/day



9802 Palm River Road · Tampa, Fl 33619-4438 · (813) 740-8506 · Fax (813) 740-8706

Project No :-

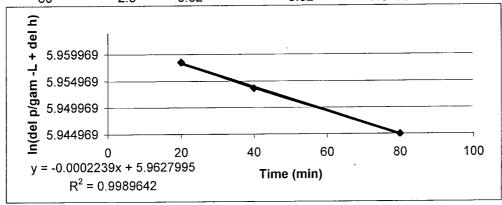
80540-001-02

Project Name:-Sample Number :- Dade City Landfill

Depth of the Sample: Lift 3

C-4/Cell 4

Time (min Buret 10.33 am vol c.c		urette 3 Del ol. c.c c.c	-	Del h nches	y=del p/gam w - L + del h	ln(y)
0	0.98	8.52	7.54	14.84249	389.1503	5.963966
20	1.34	7.8	6.46	12.71651	387.0243	5.958488
40	1.74	7.24	5.5	10.82675	385.1346	5.953593
80	2.5	6.32	3.82	7.51967	381.8275	5.944969



Date of test setup :-

16-Oct-06

Sample length :-

10.2 cm

Sample cross sectional area :-

41.061 cm²

Burette cross sectional area :-

0.2 cm2

Cell pressure :-

22.1 psi

Back pressure:-

14.1 psi

Burette 3:-

vent

Slope of the Best Fit Line :-

0.0002239

K=

5.56192E-06 cm/min

K=

9.26987E-08 cm/sec

K=

0.000262768 ft/day



9802 Palm River Road · Tampa, Fl 33619-4438 · (813) 740-8506 · Fax (813) 740-8706

Project No :-

80540-001-02

Project Name:-

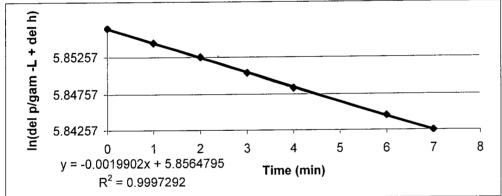
Dade City Landfill

Sample Number :-

C-7/Cell 4

Depth of the Sample: Lift 3

Time (min 10.33 am	Burette 2 vol c.c	Burette 3 vol. c.c	Del v c.c		Del h inches		y=del p/gam	w - L + del h	in(y)
0	2.78	6.5		3.72		7.32282		349.5066	5.856522
1	2.96	6.32		3.36		6.61416		348.7979	5.854493
2	3.12	6.14		3.02		5.94487		348.1286	5.852572
3	3.3			2.64		5.19684		347.3806	5.850421
4	3.48	5.76		2.28		4.48818		346.6719	5.848379
6	3.8			1.62		3.18897		345.3727	5.844624
7	3.98			1.26		2.48031		344.664	5.84257



Date of test setup :-

12-Oct-06

Sample length :-

10.2 cm

Sample cross sectional area :-

41.061 cm²

Burette cross sectional area :-

0.2 cm2

Cell pressure :-

20.34 psi

Back pressure:-

12.94 psi

Burette 3:-

vent

Slope of the Best Fit Line :-

0.0019902

K=

4.94387E-05 cm/min

K=

8.23979E-07 cm/sec

K=

0.002335688 ft/day



ENGINEERING SCIENCES

Consultants in: Geotechnical Engineering • Environmental Sciences
Construction Materials Testing • Threshold Inspection • Private Provider Inspection

Client: Ar	ngelo's A	ggregate Materials			Date:	8/29/2006
	ade City I		_		Work Order #:	17179
Project #: 80			_		Technician :	Mario
, _			_		Report #:	SI#1
			Construction Ac	ctivity Observed		
Area Constru	cted :	Cell # 4 Excavation				
Material Used	f :	Clay				
Lift #						•
Lift Thickness	s :	12"	_			
Weather:			_			
Compaction E	Equipmer	nt Used :		Other Equipment in Use :	1 - Buil Dozer	
					1 - End Dump	
					1 - TrackHoe Exc	cavator
						
					*	
		ŗ	Permeability and De	nsity Test Performed		
			mpaction /			
Locati	on		loisture	Permeability		200 wash
					_	
		1		ain activity for each)		
Photo #	2	Trackhoe excavator a	and end dump removir	ng material from cell#4		
Photo #						
Photo #						
Photo #						
Photo #						
Photo #						
Photo #						
Photo #						
Photo #						
Photo #						
Photo #				•		





Client :	Angelo's A	ggregate M	laterials		Date:	8/30/2006
Project :	Dade City	Landfill			Work Order #:	17180
Project #:	80540-001	-02			Technician :	Mario
					Report #:	SI#2
			Construction Ac	ctivity Observed		
Area Const	tructed :	Cell # 4 Ex	cavation			<u> </u>
Material Us	sed:	Clay				
Lift #		1				
Lift Thickne	ess:	12"				
Weather:		Rain				
Compactio	n Equipme	nt Used :	1 - Fully loaded end dump	Other Equipment in Use :	1 - Bull Dozer	
				·-·-	1 - End Dump	<u>.</u>
					1 - TrackHoe Ex	cavator
						·
				<u> </u>		
			Permeability and De	nsity Test Performed		
			% Compaction /			000
Loca	ation	-	% Moisture	Permeability		200 wash
		_				
		-				
		-				
		-				
			Photographs (expla	ain activity for each)		
Photo #	3	Bull dozer	pushing material in cell #4 / Con			
Photo #	4	1	excavator loading end dump with			
Photo #	-					
Photo #					<u> </u>	
Photo #						
Photo #						
Photo #						
Photo #						
Photo #						
Photo #						
Dhoto #						







Client :	Angelo's A	ggregate M	laterials		Date:	9/1/2006
Project :	Dade City	Landfill			Work Order # :	17182
Project #:	80540-001	-02			Technician :	Mario
					Report #:	SI#3
			Construction	Activity Observed		
Area Cons	tructed :	Cell # 4 Ex	cavation			
Material U	sed:	Clay				
Lift #						
Lift Thickn	ess:			·		
Weather:		Rain				
Compactic	on Equipme	nt Used :	1 - Fully loaded end dump	Other Equipment in Use :	1 - Bull Dozer	
				<u> </u>	1 - End Dump	
					1 - TrackHoe Exc	cavator
					- 25.7	
			-			
			Pormoshility and D	ensity Test Performed		
			% Compaction / %	enaity react cironned		
Loc	ation		Moisture	Permeability	,	200 wash

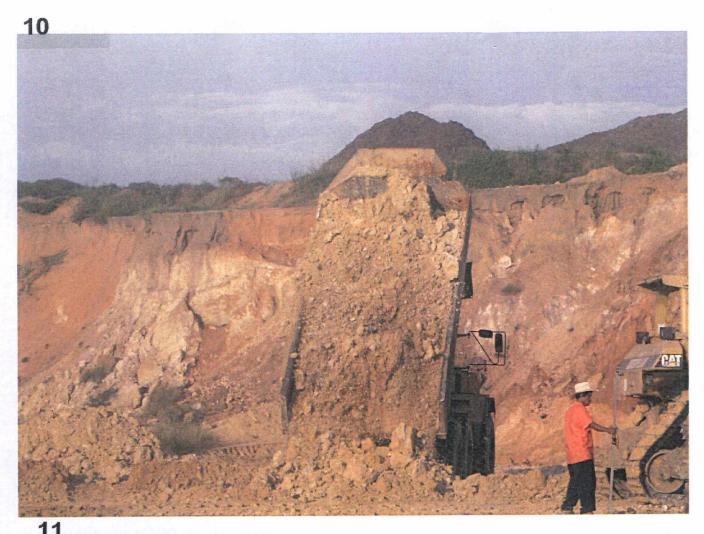
					_	14 184V
		•				
			Photographs (exp	lain activity for each)		
Photo #	7	Trackhoe	excavator removing material in			
Photo #	8		checking grade.	OOI 17-1.	2,7	
Photo #	9		excavator and bull dozer levelin	g cell #4 to elevation 79		
Photo #	ļ <u> </u>	Trackrice	excavator and bain dozer levelin	g don'n' to diovation 70.		
Photo #			1 AMA - 18 AMA - 18 AMA			
Photo #						
Photo #						
Photo #						·
Photo #	·					
Photo #						
Photo #						







Client :	Angelo's A	lggregate Mai	erials			Date:	9/1/2006
- Project : I	Dade City	Landfill				Work Order #:	17182
- Project # : 4	30540-001	1-02				Technician :	Mario
						Report # :	SI#4
			Co	nstruction Ac	tivity Observed		
Area Consti	ructed :	Cell # 4					
Material Us	ed :	Clay					
Lift #		1	. <u></u>				
Lift Thickne	ss:	12"					
Weather:		Rain/Cloudy					
Compaction	Fauinme	nt lleed :	2 - Fully loaded	end dumps	Other Equipment in Use :	1 - Bull dozer	
Compaction Equipment Used : 2 - Fully lo			Z Tany loadou	5.1.a sjap.		1 - Trackhoe exc	avator
			- 		<u> </u>		
				-			
			Dawmaa	hility and Dar	nsity Test Performed		
			% Compaction		isity restrictionica		
Loca	tion	_	% Moistur		Permeability	_	200 wash
Α -	7	_	101% / 24.3	%	10 -9		49.4
Α -	6	_	104% / 21.7	%	10 -9	_	51.5
Α-	5	_	105% / 22.3	%			
		_					
		-					
			Photog	graphs (expla	in activity for each)		
Photo #	10	End dump p			l dozer to push in first lift.		
Photo #	11				material for first lift of cell #4		
Photo #							
Photo #				,			
Photo #				·			
Photo #			 		· · · · · · · · · ·		
Photo #						<u> </u>	
Photo #			<u></u>				
Photo #							
Photo #							
Photo #							







Client :	Angelo's	Aggregate Mate	erials			Date:	9/1/2006
Project :	Dade City	/ Landfill				Work Order # :	17182
Project #	: 80540-00	1-02				Technician:	Mario
						Report # :	SI#5
			Constr	uction Acti	vity Observed		
Area Con	structed :	Cell # 4					
Material (Jsed :	Clay					
Lift #		2	·				
Lift Thick	ness :	12"					
Weather	:	Rain/Cloudy					
Compact	ion Equipme	ent Used :			Other Equipment in Use	: 1 - Bull dozer	
,		_			<u>-</u>	1 - Trackhoe exca	vator
		_			_	2 - End dumps	
		_			_		
		_			_		
					_		
			Permeabilit	v and Dens	ity Test Performed		
			% Compaction /	,	,		
Lo	cation		% Moisture	_	Permeability		200 wash
		_ =		_			
				_			
				_		_	
			Photograph	ns (explain	activity for each)		
Photo #	12	Trackhoe load	ding end dumps with	material for	second lift of cell #4.		- · · · · · · · · · · · · · · · · · · ·
Photo #	13	Contractor ch	ecking grade in fron	t of bull doze	er.		
Photo #	14	End dump un	loading material for	2nd lift cell #	‡4		
Photo #							
Photo #				_			
Photo #							
Photo #							
Photo #					7,0		
Photo #							
Photo #							· · ·
Photo #							



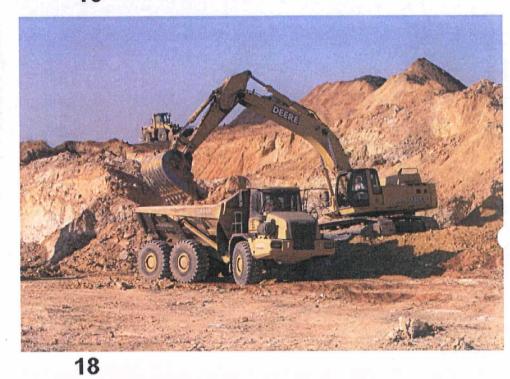






Client:	Angelo's A	ggregate Materials	_		Date:	9/5/2006
Project :	Dade City	Landfill	_		Work Order#:	17284
Project #: 80540-001-02			_		Technician:	Mario
					Report #:	SI#6
			Construction Ac	tivity Observed		
Area Const	ructed :	Cell # 4				
Material Us	ed:	Clay				
Lift#		3	_			
Lift Thickne	ss:	12"	_			
Weather:		Cloudy	_			
Compaction	n Fauipme	nt Used: 2 - Loadeo	d end dumps	Other Equipment in Use :	1 - Bull dozer	
Compactio.	4				1 - Trackhoe exc	avator
					2 - End dumps	
		P	ermeability and Der	nsity Test Performed		
•		% Compa	iction / % isture	Permeability		200 wash
Loca	tion	Moi	otaro	. crinical sinity	_	200 174311
Loca A			/ 21.7%	10 -9		59.8
	- 5	106%				
A	- 5 - 6	106% 106%	/ 21.7%	10 -9		59.8
A -	- 5 - 6 - 8	106% 106% 106%	/ 21.7% / 21.4%	10 -9 10 -9		59.8 42.8
A -	- 5 - 6 - 8	106% 106% 106% 106%	/ 21.7% / 21.4% 6 / 20% 6 / 21%	10 -9 10 -9 10 -9		59.8 42.8
A -	- 5 - 6 - 8	106% 106% 106% 106%	/ 21.7% / 21.4% 6 / 20% 6 / 21%	10 -9 10 -9		59.8 42.8
A -	- 5 - 6 - 8	106% 106% 106% 106% Fend dump placing mate	/ 21.7% / 21.4% 6 / 20% 6 / 21% Photographs (explant erial in cell #4 Lift #3	10 -9 10 -9 10 -9 in activity for each)		59.8 42.8
A - A -	- 5 - 6 - 8	106% 106% 106% 106%	/ 21.7% / 21.4% 6 / 20% 6 / 21% Photographs (explant erial in cell #4 Lift #3	10 -9 10 -9 10 -9 in activity for each)		59.8 42.8
A - A - Photo#	- 5 - 6 - 8 - 7	106% 106% 106% 106% Fend dump placing mate	/ 21.7% / 21.4% // 20% // 21% Photographs (explaerial in cell #4 Lift #3	10 -9 10 -9 10 -9 in activity for each)		59.8 42.8
A - A - Photo #	- 5 - 6 - 8 - 7 - 15 - 16	106% 106% 106% 106% 106% Trackhoe loading mate Bull dozer pushing mate	/ 21.7% / 21.4% / 21.4% / / 20% / / 21% Photographs (explaerial in cell #4 Lift #3 erial in end dump. terial for 3rd lift cell #	10 -9 10 -9 10 -9 in activity for each) 4.		59.8 42.8
A - A - A - Photo # Photo # Photo #	- 5 - 6 - 8 - 7 - 15 - 16 - 17	106% 106% 106% 106% Toe End dump placing mate Bull dozer pushing mate	/ 21.7% / 21.4% / 21.4% / / 20% / / 21% Photographs (explaerial in cell #4 Lift #3 erial in end dump. terial for 3rd lift cell #	10 -9 10 -9 10 -9 in activity for each) 4.		59.8 42.8
A - A - A - Photo # Photo # Photo # Photo #	- 5 - 6 - 8 - 7 - 15 - 16 - 17 - 18	106% 106% 106% 106% 106% Trackhoe loading mate Bull dozer pushing mate	/ 21.7% / 21.4% / 21.4% / / 20% / / 21% Photographs (explaerial in cell #4 Lift #3 erial in end dump. terial for 3rd lift cell #	10 -9 10 -9 10 -9 in activity for each) 4.		59.8 42.8
A - A - A - Photo # Photo # Photo # Photo # Photo #	- 5 - 6 - 8 - 7 - 15 - 16 - 17 - 18	106% 106% 106% 106% 106% Trackhoe loading mate Bull dozer pushing mate	/ 21.7% / 21.4% / 21.4% / / 20% / / 21% Photographs (explaerial in cell #4 Lift #3 erial in end dump. terial for 3rd lift cell #	10 -9 10 -9 10 -9 in activity for each) 4.		59.8 42.8
A - A - A - Photo #	- 5 - 6 - 8 - 7 - 15 - 16 - 17 - 18	106% 106% 106% 106% 106% Trackhoe loading mate Bull dozer pushing mate	/ 21.7% / 21.4% / 21.4% / / 20% / / 21% Photographs (explaerial in cell #4 Lift #3 erial in end dump. terial for 3rd lift cell #	10 -9 10 -9 10 -9 in activity for each) 4.		59.8 42.8
A - A - A - Photo #	- 5 - 6 - 8 - 7 - 15 - 16 - 17 - 18	106% 106% 106% 106% 106% Trackhoe loading mate Bull dozer pushing mate	/ 21.7% / 21.4% / 21.4% / / 20% / / 21% Photographs (explaerial in cell #4 Lift #3 erial in end dump. terial for 3rd lift cell #	10 -9 10 -9 10 -9 in activity for each) 4.		59.8 42.8















Client :	Angelo's	Aggregate M	laterials	_			Date:	9/5/2006
Project :	Dade City	/ Landfill		_			Work Order # :	17284
Project # :	80540-00	1-02		_			Technician:	Mario
				-			Report #:	SI#6A
				Constructio	n Acti	vity Observed		
Area Cons	structed:	Cell # 4						
Material U		Clay						
Lift #		2		_				
Lift Thickn	ness :	12"						
Weather:		Cloudy			•		·	
				-				
Compaction	on Equipm	ent Used :	2 - Loadeo	l end dumps		_Other Equipment in Use :	1 - Bull dozer	
·						<u>_</u>	1 - Trackhoe ex	cavator
	•					_	2 - End dumps	
						_		
			Pe	ermeability and	Dens	sity Test Performed		
				paction /				
Loc	ation	_	% Mc	oisture		Permeability		200 wash
Δ	<u> </u>	_	103%	/ 24.3%		10 -9		42.8
Д	· - 8	_	106%	5/20.4			-	
Δ	\ - 7	_	106%	/ 19.9%				
			·					
		\neg	P	hotographs (e	xplair	activity for each)		
Photo #								
Photo #			<u>.</u>			····		
Photo #							· · · · · · · · · · · · · · · · · · ·	
Photo #								
Photo #								
Photo #								
Photo #								
Photo #								
Photo #								
Photo #								
Photo #						-		



Client :	Angelo's A	ggregate Ma	atoriale		Date:	9/13/2006
	Dade City		atenais		Work Order # :	17349
Project #:					Technician:	Mario
r roject # .	80340-00	-02			Report #:	SI#7
			Construction	Activity Observed	ricport # .	01117
Area Const	truotod :	Cell # 4	Construction	Activity Observed		
Material Us	sea :	Clay	· · · · · · · · · · · · · · · · · · ·			
Lift #		1				
Lift Thickne	ess:	12"	· · · · · · · · · · · · · · · · · · ·			
Weather:		Cloudy	 			
Compaction	n Equipme	nt Used :	·2 - Loaded end dumps	Other Equipment in Use :	1 - Bull dozer	
,			-		1 - Trackhoe exc	avator
					2 - End dumps	
			Permeability and I	Density Test Performed		
			% Compaction /	·		
Loca	ation	-	% Moisture	Permeability		200 wash
В	- 5	_	110% / 21.7%	10 -9	_	52.8
В_	- 6	_	110% / 20.8%		_	
В	- 7	_	112% / 19.8%			
В	- 8	-	107% / 21.1%	10 -9	_	62.9
,		7	Photographs (ex	plain activity for each)		
Photo #	25	End Dump	placing material in lift 1 cell #	4, and bull dozer pushing materi	al.	
Photo #	26	Contractor	checking grade on lift 1.			
Photo #	27	Trackhoe k	pading end dump with materia	al.		
Photo #						
Photo #						
Photo #						
Photo #						
Photo #						•
Photo #						
Photo #						
Db -4- #						













UNIVERSAL

Consultants in: Geotechnical Engineering • Environmental Sciences Construction Materials Testing • Threshold Inspection • Private Provider Inspection

Client:	Angelo's A	ggregate M	aterials			Date:	9/13/2006
Project :	Dade City	Landfill				Work Order #:	17349
Project #:	80540-001	-02				Technician :	Mario
						Report #:	SI#8
				Construction	Activity Observed		
Area Const	ructed :	Cell # 4					***
Material Us	ed:	Clay					<u> </u>
Lift #		2					
Lift Thickne	ess:	12"				•	
Weather:		Cloudy					
Compaction	n Equipme	nt Used :	2 - Loaded	end dumps	Other Equipment in Use	: 1 - Bull dozer	
	. , ,					1 - Trackhoe exc	cavator
						2 - End dumps	
							
							
			Pe	ermeability and [Density Test Performed		
				paction /			
Loca	ation	-	% Mo	isture	Permeability		200 wash
В	- 5	_	110%	/ 20%			
B_	- 6	_	111%	/ 21%			
В	- 7	_	108%	/ 24.3%	10 -9		57.6
В	- 8	_	109%	/ 21.5%			
į		7	P	hotographs (ex	plain activity for each)		
Photo #	28	Bull dozer	pushing mati	erial.			
Photo #	29	End dump	unloading m	aterial.		***	
Photo #	30	Trackhoe	loading mater	rial in end dump.			
Photo #	31	End dump	fully load roll	ling material for c	ompaction.		
Photo #							
Photo #							
Photo #				· · · · ·			
Photo #			· · · · · · · · · · · · · · · · · ·	<u> </u>			
Photo #			· · · · · · · · · · · · · · · · · · ·				
Photo #							
Photo #							











Client :	Angelo's A	Aggregate M	aterials		Date:	9/13/2006
Project :	Dade City	Landfill			Work Order #:	17349
Project #	80540-00	1-02			Technician:	Mario
					Report #:	SI#9
			Construction	on Activity Observed	•	
Area Con	structed :	Cell # 4				
Material L	Jsed:	Clay				
Lift #		3				
Lift Thickr	ness :	12"				
Weather:		Cloudy				
Compacti	on Equipme	ent Used :	2 - Loaded end dumps	Other Equipment in Use :	1 - Bull dozer	
					1 - Trackhoe ex	cavator
					2 - End dumps	
			Permeability and	d Density Test Performed		
Loc	cation	_	% Compaction / % Moisture	Permeability		200 wash
E	3 - 5	_	104% / 24.3%			
E	3 - 6	_	104% / 21.7%	10 -9		55.4
E	3 - 7	_	108% / 24.5%			
E	3 - 8	_	106% / 22.3%		_	
		٦	Photographs (e	explain activity for each)		
Photo #						
Photo #	33	Trackhoe 1	oading loading end dump wi	th material.		
Photo #	34	Trackhoe I	oading loading end dump wi	th material.		
Photo #	35	End dump	unloading material for 3rd lit	ft.		
Photo #						
Photo #						
Photo #						
Photo #						
Photo #						
Photo #						
Photo #						









0" 1	A I - I - A		-4			Date:	9/21/2006
Client :		ggregate M	ateriais			Work Order # :	17456
Project :	Dade City						
Project #:	80540-001	-02				Technician:	Mario
						Report #:	SI#10
			Co	nstruction A	ctivity Observed		
Area Cons	tructed:	Cell # 4 Ex	cavation				
Material U	sed:	Clay					-
Lift #							
Lift Thickn	ess:						
Weather:		Clear					
Compaction	n Equipme	nt Used :			Other Equipment in Use	1 - Bull dozer	
						1 - Trackhoe exc	cavator
						2 - End dumps	
							
			Permea	bility and De	nsity Test Performed		
			% Compaction	<i>l</i> %			200 wash
Loc	ation	-	Moisture		Permeability	_	200 Wasii
		-				_	
	-	-				_	
		_					
		_				_	
		1	Photog	jraphs (expla	in activity for each)	•	
Photo #	36	Bull dozer	pushing material.				
Photo #	37	Trackhoe	excavating cell#4 to	elevation 79,	and loading end dumps.		
Photo #							
Photo #							
Photo #							
Photo #						•	
Photo #							
Photo #				,,			
Photo #				1			
Photo #							
1 11010 11		 		5.5°°			

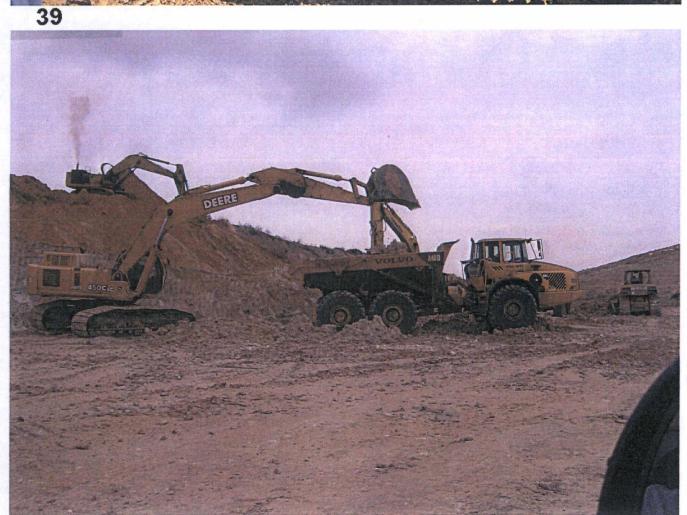






Client :	Angelo's A	Aggregate Ma	terials				Date:	9/22/2006
Project :	Dade City						Work Order#	: <u>17457</u>
Project #:							Technician :	Mario
•							Report #:	SI#11
				Construct	ion Activ	vity Observed		
Area Cons	tructed :	Cell # 4 Exc	avation					
Material Us	sed:	Clay						
Lift#								
Lift Thickne	ess:							
Weather:		Clear						
Compactio	n Fauinme	nt Used :				Other Equipment in Use :	1 - Bull dozer	
Compaction	Equipe	2000			,,		1 - Trackhoe e	excavator
					-	-	2 - End dumps	3
						-		
						-		
						-		
			Pe	rmeability a	nd Densi	ity Test Performed		
			% Compa			•		
Loc	ation	_		sture		Permeability		200 wash
		_						
		_						
		_						
		_						
		7	Pi	hotographs ((explain	activity for each)		
Photo #	38	End dump t	inloading ma	aterial.				
Photo #	39	Trackhoe e	xcavating ce	II#4 to elevati	ion 79.			
Photo #								
Photo #								
Photo #								
Photo #								
Photo #					-		AF 1	
Photo #								
Photo #								
Photo #								<u> </u>
Photo#								







Project : Dade City Landfill	Project # : 80 Area Constru Material Used	0540-001 acted : d :	Cell # 4 Clay 1 12" Clear			 		Technician :	Mario
Project # : 80540-001-02 Technician : Mario Report # : Si#12	Project # : 80 Area Constru Material Used	0540-001 acted : d :	Cell # 4 Clay 1 12" Clear			 			
Construction Activity Observed Area Constructed: Cell # 4 Material Used: Clay Lift # 1 Lift Thickness: 12" Weather: Clear Compaction Equipment Used: Other Equipment in Use: 1 - Bull dozer 1 - Trackhoe excavator Permeability and Density Test Performed % Compaction / % Permeability Moisture Permeability and Density Test Performed % Compaction / % Permeability Photo# 40 Trackhoe loading material in end dump for lift 1. Photo # 41 End dump unloading material in end dump for lift 1. Photo # 42 Trackhoe loading material in end dump for lift 1. Photo # 42 Trackhoe loading material in end dump for lift 1. Photo # 42 Trackhoe loading material in end dump for lift 1.	Area Constru Material Used Lift #	d:	Cell # 4 Clay 1 12" Clear			 		Report#:	SI#12
Area Constructed: Cell # 4 Material Used: Clay Lift # 1 Lift Thickness: 12" Weather: Clear Compaction Equipment Used: Other Equipment in Use: 1- Bull dozer Permeability and Density Test Performed **Compaction **Moisture** Permeability and Density Test Performed **Location** **Permeability and Density Test Performed **Location** **Permeability and Density Test Performed **Description **Permeability **Permeability	Material Used	d: s:	Clay 1 12" Clear			 			<u>.</u>
Lift #	Material Used	d: s:	Clay 1 12" Clear		-				
Lift # 1 Lift Thickness: 12" Weather: Clear Compaction Equipment Used: Other Equipment in Use: 1 - Bull dozer 1 - Trackhoe excavator Permeability and Density Test Performed Compaction % Moisture Permeability Permeability 200 wash Photographs (explain activity for each) Photo # 40 Trackhoe loading material in end dump for lift 1. Photo # 41 End dump unloading material and a bull dozer leveling material for lift 1. Photo # 42 Trackhoe loading material in end dump for lift 1. Photo # 45 Trackhoe loading material in end dump for lift 1. Photo # 46 Trackhoe loading material in end dump for lift 1. Photo # 47 Trackhoe loading material in end dump for lift 1.	Lift#	s:	1 12" Clear	1.19					·
Lift Thickness : 12" Weather : Clear Compaction Equipment Used : Other Equipment in Use : 1 - Bull dozer Permeability and Density Test Performed **Compaction I ** Moisture Permeability ** Permeability ** 200 wash Photographs (explain activity for each) Photo # 40 Trackhoe loading material in end dump for lift 1. Photo # 41 End dump unloading material in end dump for lift 1. Photo # 42 Trackhoe loading material in end dump for lift 1. Photo # Photo # 42 Trackhoe loading material in end dump for lift 1. Photo # Photo Pho			12" Clear		· -				
Veather: Compaction Equipment Used: Other Equipment in Use: 1 - Bull dozer Permeability and Density Test Performed **Compaction / %** Moisture Permeability **Moisture Permeability **Photo # 40 Trackhoe loading material in end dump for lift 1. Photo # 41 End dump unloading material in end dump for lift 1. Photo # 42 Trackhoe loading material in end dump for lift 1. Photo # 45 Photo # 46 Prackhoe loading material in end dump for lift 1. Photo # 47 Photo # 48 Photo # 49 Photo # 49 Photo # 49 Photo # 40 Photo # 41 Photo # 42 Prackhoe loading material in end dump for lift 1. Photo # Photo Pho	Lift Thicknoon		Clear						
Compaction Equipment Used : Other Equipment in Use : 1 - Bull dozer	LIR THICKIES	Equipmer	1.20		_				
Permeability and Density Test Performed **Compaction / %* Moisture Permeability 200 wash Photographs (explain activity for each) **Photo # 40 Trackhoe loading material in end dump for lift 1. Photo # 41 End dump unloading material and a bull dozer leveling material for lift 1. Photo # 42 Trackhoe loading material in end dump for lift 1. Photo # 45 Trackhoe loading material in end dump for lift 1. Photo # 45 Trackhoe loading material in end dump for lift 1. Photo # 45 Trackhoe loading material in end dump for lift 1. Photo # 46 Trackhoe loading material in end dump for lift 1.	Weather:	Equipmer							
Permeability and Density Test Performed **Compaction / % Moisture Permeability 200 wash **Photographs (explain activity for each) **Photo # 40 Trackhoe loading material in end dump for lift 1. **Photo # 41 End dump unloading material and a bull dozer leveling material for lift 1. **Photo # 42 Trackhoe loading material in end dump for lift 1. **Photo # 42 Trackhoe loading material in end dump for lift 1. **Photo # 42 Trackhoe loading material in end dump for lift 1. **Photo # 42 Trackhoe loading material in end dump for lift 1. **Photo # 42 Trackhoe loading material in end dump for lift 1. **Photo # 42 Trackhoe loading material in end dump for lift 1. **Photo # 43 Trackhoe loading material in end dump for lift 1. **Photo # 44 Trackhoe loading material in end dump for lift 1. **Photo # 45 Trackhoe loading	Compaction I		t Used :				Other Equipment in Use :	1 - Bull dozer	
Location							_	1 - Trackhoe exca	vator
Location							_		
Location							_	·	
Location							_		<u> </u>
Location									
Location				Po	ermeability	and Dens	ity Test Performed		
Photo # 40 Trackhoe loading material in end dump for lift 1. Photo # 41 End dump unloading material and a bull dozer leveling material for lift 1. Photo # 42 Trackhoe loading material in end dump for lift 1. Photo # 45 Photo # 46 Photo # 47 Photo # 47 Photo # 48 Photo # 49 Photo # 49 Photo # 40 Photo # 40 Photo # 40 Photo # 41 Photo # 42 Photo # 43 Photo # 44 Photo # 45 Photo # 45 Photo # 46 Photo # Photo Phot									
Photo # 40 Trackhoe loading material in end dump for lift 1. Photo # 41 End dump unloading material and a bull dozer leveling material for lift 1. Photo # 42 Trackhoe loading material in end dump for lift 1. Photo # Photo # Photo #	Locati	on		Moi	sture		Permeability		200 wash
Photo # 40 Trackhoe loading material in end dump for lift 1. Photo # 41 End dump unloading material and a bull dozer leveling material for lift 1. Photo # 42 Trackhoe loading material in end dump for lift 1. Photo # Photo # Photo #									
Photo # 40 Trackhoe loading material in end dump for lift 1. Photo # 41 End dump unloading material and a bull dozer leveling material for lift 1. Photo # 42 Trackhoe loading material in end dump for lift 1. Photo # Photo # Photo #								_	
Photo # 40 Trackhoe loading material in end dump for lift 1. Photo # 41 End dump unloading material and a bull dozer leveling material for lift 1. Photo # 42 Trackhoe loading material in end dump for lift 1. Photo # Photo # Photo #					 			_	
Photo # 40 Trackhoe loading material in end dump for lift 1. Photo # 41 End dump unloading material and a bull dozer leveling material for lift 1. Photo # 42 Trackhoe loading material in end dump for lift 1. Photo # Photo # Photo #								_	
Photo # 40 Trackhoe loading material in end dump for lift 1. Photo # 41 End dump unloading material and a bull dozer leveling material for lift 1. Photo # 42 Trackhoe loading material in end dump for lift 1. Photo # Photo # Photo #									
Photo # 41 End dump unloading material and a bull dozer leveling material for lift 1. Photo # 42 Trackhoe loading material in end dump for lift 1. Photo # Photo # Photo #				Р	hotographs	s (explain	activity for each)		
Photo # 42 Trackhoe loading material in end dump for lift 1. Photo # Photo # Photo #	Photo #	40	Trackhoe lo	ading mate	rial in end du	ımp for lift	1.		
Photo# Photo# Photo#	Photo #	41	End dump ι	unloading m	aterial and a	bull dozer	r leveling material for lift 1.		
Photo# Photo# Photo#	Photo#	42	Trackhoe lo	ading mate	rial in end du	ump for lift	1.		
Photo#	Photo #								
Photo#	Photo#								
			·			-			
	(-	,							
Photo#									
Photo#							1		
Photo#							- 10-		
	Photo #	-							











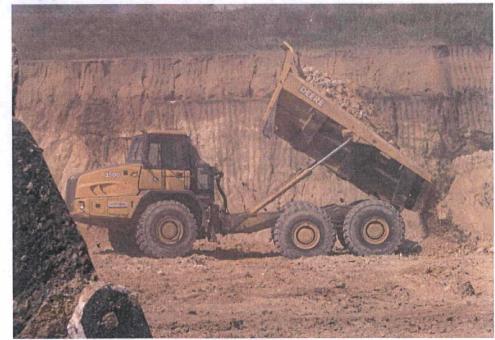
Client:	Angelo's A	Aggregate M	aterials		Date:	9/23/2006
Project :	Dade City	Landfill	<u></u>		Work Order #:	17543
Project #:	80540-00°	1-02			Technician:	Mario
					Report #:	SI#13
			Constructio	n Activity Observed		
Area Const	ructed :	Cell # 4				
Material Us	ed:	Clay				
Lift#		2				
Lift Thickne	ess :	12"				
Weather :		Clear				
Compaction	n Equipme	nt Used :	3 - End dumps	Other Equipment in Use :	1 - Bull dozer	
					1 - Trackhoe exca	avator
				<u></u>	3 -End dumps	
				<u></u>		
			Permeability and	Density Test Performed		
Loca	ition		% Compaction / % Moisture	Permeability		200 wash
В-		-	111% / 21%	10 -9		65.7
A -		_	107% / 19.9%			
В-	-	_	108% / 20.2%			
A -		_	109% / 20.8%	10 -8		50.7
		-				
_			Photographs (e	xplain activity for each)		
Photo#	46	Bull dozer	pushing material for lift 2.			
Photo #	47	Bull dozer	pushing material for lift 2.			
Photo#	48	End dump	unloading material.			
Photo #	49	Bull dozer	pushing material for lift 2.			
Photo #						
Photo#						
Photo#						
Photo #						
Photo#						
Photo #						
Photo#						<u> </u>





Client :	Angelo's A	ggregate Mate	erials		Date:	9/23/2006
Project :	Dade City	Landfill	<u>. </u>		Work Order #:	17543
Project # :	80540-001	-02			Technician :	Mario
					Report #:	SI#14
			Constructio	n Activity Observed		
Area Const	tructed :	Cell # 4				
Material Us	sed :	Clay				
Lift #		1		•		
Lift Thickne	ess :	12"				
Weather :		Clear				
Compactio	n Equipme	nt Used :	3 - End dumps	Other Equipment in Use :	1 - Bull dozer	
					1 - Trackhoe ex	cavator
		_			3 -End dumps	
		_				
		-				
		_				
			Permeability and	Density Test Performed		
			% Compaction /			
Loca	ation		% Moisture	Permeability	_	200 wash
В	- 4		109% / 21.1%			
A	- 4		104% / 20.3%	10 -9		50.3
В	- 3		104% / 20.3		_	
Α	- 3		107% / 20.8%			
	· · · · · · · · · · · · · · · · · · ·	٦	Photographs (e	explain activity for each)		
Photo #	43	Trackhoe loa	ding end dump with mater	ial.		
Photo #	44	End dump ur	nloading material.			
Photo #	45	Bull dozer pu	shing material.			
Photo #	50	Fully loaded	end dump rolling 1st lift fo	r compaction.		
Photo #						
Photo #						
Photo #						
Photo #						
Photo #						
Photo #						
Dhoto #						







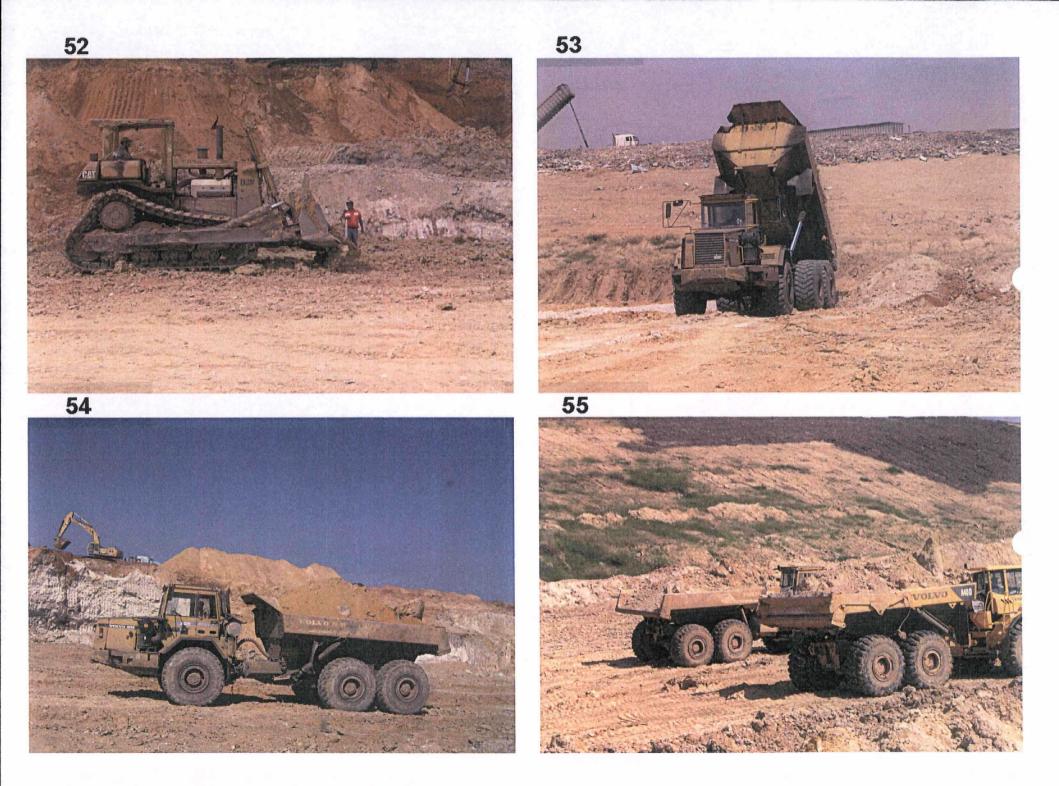


Client :	Angelo's	Aggregate Ma	aterials				Date:	9/25/2006
Project :	Dade City	Landfill					Work Order # :	17536
Project #:							Technician:	Mario
,							Report # :	SI#15
			C	Construction	Activity (Observed	١.	
Area Cons	tructed :	Cell #4 Exc						
Material U	sed :	Clay						
Lift #								
Lift Thickn	ess :	<u> </u>						
Weather:		Clear						
Compactic	on Equipme	ent Used :			Oth	er Equipment in Use :	1 - Bull dozer	
. '	'.'						1 - Trackhoe ex	cavator
							2 -End dumps	
				-				

			Perme	eability and l	Density Te	est Performed		
٠			% Compact		•			
Loc	ation		% Moistu			Permeability		200 wash
····		_						
		_						
		-						
		_						
	r	7	Photo	ographs (ex	plain activ	vity for each)		
Photo #						·		
Photo #			·				···	· · · · · · · · · · · · · · · · · · ·
Photo #						· · · · · · · · · · · · · · · · · · ·		
Photo #						<u> </u>		
Photo #								·
Photo #							-	
Photo #								
Photo #								
Photo #								
Photo #								
5 1								

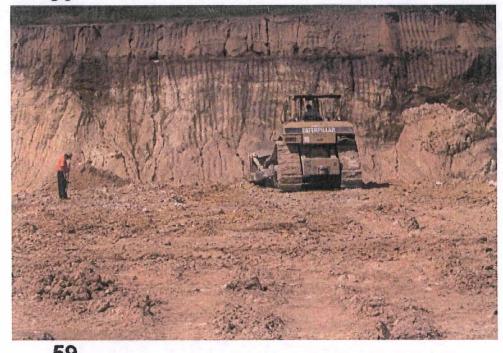


Client :	Angelo's A	ggregate Ma	aterials		Date:	9/25/2006
	Dade City				Work Order #:	17536
Project #:					Technician:	Mario
•		-		•	Report #:	SI#16
			Constructio	n Activity Observed		
Area Cons	tructed :	Cell #4		<u> </u>		
Material Us	sed:	Clay				
Lift#		2				
Lift Thickne	ess:	12"				
Weather:		Clear				
Compactio	n Equipme	nt Used :	2- End dumps	Other Equipment in Use :	1 - Bull dozer	
·					1 - Trackhoe exc	avator
					2 -End dumps	
				-		•
			Permeability and	Density Test Performed		
			% Compaction / %			
Loc	ation	-	Moisture	Permeability	- —	200 wash
		_			-	
		_				
	****	_				
		-			_ ·	
	<u></u>	7	Photographs (e	xplain activity for each)		
Photo #	52_	Bull dozer	pushing material.			
Photo #	53	End dump	unloading material.			
Photo #	54	Fully loade	d end dump rolling in 2nd lift	for compaction.		
Photo #	55	Fully loade	d end dump rolling in 2nd lift	for compaction.		
Photo #						
Photo #						
Photo #					wii	
Photo #						
Photo #						· · · · · · · · · · · · · · · · · · ·
Photo #						****
Photo #						





	Angelo's A	Aggregate Ma	terials		Date:	9/26/2006
Project:	Dade City	Landfill			Work Order #:	17537
Project #:	80540-00	1-02			Technician:	<u>Mario</u>
					Report #:	SI#17
			Construction	n Activity Observed		
Area Const	tructed :	Cell #4			_	
Material Us	sed:	Clay				
Lift #		3				
Lift Thickness :		12"	***			
Weather:		Clear				
Compactio	n Equipme	nt Used :	2- End dumps	Other Equipment in Use :	1 - Bull dozer	
					1 - Trackhoe exca	avator
					2 -End dumps	
			Permeability and	Density Test Performed		
Loca	ation		% Compaction / %	Permeability		200 wash
	ation	-	Moisture	Permeability	_	
В	- 4	- -	Moisture 105% / 21.7%	Permeability		200 wash 60.6
В	- 4	- -	Moisture 105% / 21.7% 106% / 19.9%		 	
В	- 4	- - -	Moisture 105% / 21.7%			
В	- 4	- - -	Moisture 105% / 21.7% 106% / 19.9%			
В	- 4	- - - -	Moisture 105% / 21.7% 106% / 19.9% 107% / 20.8%	10 -9		
B B A	- 4 - 3 - 4	- - -	Moisture 105% / 21.7% 106% / 19.9% 107% / 20.8% Photographs (ex			
B A A	- 4 - 3 - 4		Moisture 105% / 21.7% 106% / 19.9% 107% / 20.8% Photographs (exchecking grade.	10 -9		
B A A	- 4 - 3 - 4 56 57	Fully loaded	Moisture 105% / 21.7% 106% / 19.9% 107% / 20.8% Photographs (exchecking grade.	10 -9		
B A Photo# Photo#	- 4 - 3 - 4 - 56 - 57 - 58	Fully loaded	Moisture 105% / 21.7% 106% / 19.9% 107% / 20.8% Photographs (exchecking grade. I end dump rolling 3rd lift for ading material in end dump.	tplain activity for each)		
Photo # Photo # Photo # Photo #	- 4 - 3 - 4 56 57	Fully loaded	Moisture 105% / 21.7% 106% / 19.9% 107% / 20.8% Photographs (exchecking grade.	tplain activity for each)		
B A Photo# Photo# Photo# Photo# Photo#	- 4 - 3 - 4 - 56 - 57 - 58	Fully loaded	Moisture 105% / 21.7% 106% / 19.9% 107% / 20.8% Photographs (exchecking grade. I end dump rolling 3rd lift for ading material in end dump.	tplain activity for each)		
Photo #	- 4 - 3 - 4 - 56 - 57 - 58	Fully loaded	Moisture 105% / 21.7% 106% / 19.9% 107% / 20.8% Photographs (exchecking grade. I end dump rolling 3rd lift for ading material in end dump.	tplain activity for each)		
Photo #	- 4 - 3 - 4 - 56 - 57 - 58	Fully loaded	Moisture 105% / 21.7% 106% / 19.9% 107% / 20.8% Photographs (exchecking grade. I end dump rolling 3rd lift for ading material in end dump.	tplain activity for each)		
Photo #	- 4 - 3 - 4 - 56 - 57 - 58	Fully loaded	Moisture 105% / 21.7% 106% / 19.9% 107% / 20.8% Photographs (exchecking grade. I end dump rolling 3rd lift for ading material in end dump.	tplain activity for each)		
Photo #	- 4 - 3 - 4 - 56 - 57 - 58	Fully loaded	Moisture 105% / 21.7% 106% / 19.9% 107% / 20.8% Photographs (exchecking grade. I end dump rolling 3rd lift for ading material in end dump.	tplain activity for each)		







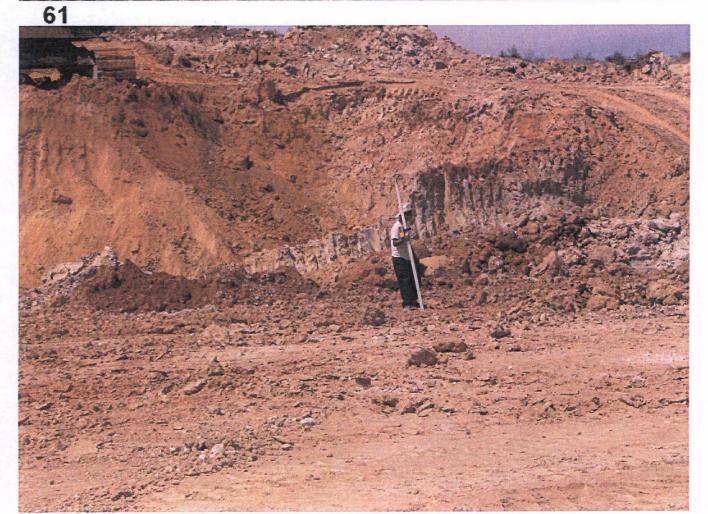




Client :	Angelo's A	ggregate M	aterials			Date:	9/27/2006
Project :	Dade City	Landfill				Work Order #:	17538
Project #:	80540-001	1-02				Technician :	Mario
						Report #:	SI#18
	•		С	onstruction A	activity Observed		
Area Const	tructed :	Cell #4 Exc	cavation				*-
Material Us	sed :	Clay			4000		
Lift #							
Lift Thickne	ess:						
Weather:		Clear					
Compactio	n Equipme	nt Used :			Other Equipment in Use	: 1 - Bull dozer	
					3 - Trackhoe exca	avator	
					<u> </u>		
			Perme	ability and De	ensity Test Performed		
Loca	ation		% Compaction		Permeability	_	200 wash
		_					<u> </u>
		_					
		-					<u> </u>
		-					
		-					
			Photo	graphs (expl	lain activity for each)		
Photo #	61	Bull dozer	pushing material,	and contracto	or checking grade.		
Photo #	62		hoe excavating ce				
Photo #							
Photo #							<u> </u>
Photo #		1					
Photo #							
Photo #			-				
Photo #							
Photo #							
Photo #			· · · · · · · · · · · · · · · · · · ·				









Client :	Angelo's A	Aggregate M	aterials				Date:		9/28/2006
Project :	Dade City	Landfill					Work Order	#:	17539
Project #:	80540-00	1-02					Technician :		Mario
							Report #:		SI#19
				Construction	Activity C	bserved			
Area Cons	tructed :	Cell #4 Exc	cavation						A.A.L
Material Us	sed :	Clay							
Lift #					•				
Lift Thickne	ess:								
Weather:		Clear							
Compactio	n Equipme	nt Used :			Oth	er Equipment in Use :	2 - Bull doze	r	
							2 - Trackhoe	excava	tor
							3 - End dum	ps	
									a-,-
					.				
			Pe	rmeability and	Density Te	est Performed			
			% Compac					0.0	10h
Loca	ation	_	Mois	ture		Permeability		20	0 wash
		_				· · · · · · · · · · · · · · · · · · ·			
		_							
		-		•					
		7	P	notographs (e	plain activ	rity for each)			
Photo #	63	Trackhoe I	oading end d	umps with exca	ated mater	ial.		·	
Photo #									
Photo #									-
Photo #									
Photo #									
Photo #									
Photo #									
Photo #									
Photo #									
Dhoto #									





Client :	Angelo's A	Aggregate Ma	aterials		Date:	9/28/2006
Project :	Dade City	Landfill			Work Order # :	17539
Project #:	80540-001	1-02		•	Technician :	Mario
·					Report #:	SI#20
			Construction	Activity Observed		
Area Cons	structed :	Cell #4				
Material U	sed :	Clay				
Lift # 1						
Lift Thickn	ess:	12"				
Weather :		Clear				
Compactio	on Equipme	nt Used :	2 - End dumps	Other Equipment in Use :	1 - Bull dozer	
_					1 - Trackhoe exc	cavator
					3 - End Dumps	
			Permeability and	Density Test Performed		
Loc	ation	_	% Compaction / % Moisture	Permeability		200 wash
С	- 5	_	105% / 21.4%			
С	- 4	105% / 21.7%				,
		_			_	·
		_				
		_	Photographs (ex	cplain activity for each)		
Photo #	64	Trackhoe le	pading end dump with materi	al		- Y-1
Photo #	65	Bull dozer	oushing material.			
Photo #	66		unloading material.			
Photo #	67	Contractor	cheaking grade.			
Photo #	68	End dump	unloading material.			
Photo #						
Photo #						
Photo #						
Photo #						
Photo #						







Client :	Angelo's A	Aggregate Mate	erials		Date:	9/29/2006
Project :	Dade City	Landfill			Work Order #	17540
Project #	: 80540-00	1-02			Technician :	Mario
					Report #:	SI#21
			Construction	n Activity Observed		
Area Cor	structed :	Cell #4				
Material (Jsed:	Clay				
Lift #		1	<u></u>			
Lift Thickness : 12"		12"				
Weather	:	Clear				
Compact	ion Equipme	ent Used :	1 - End dumps	Other Equipment in Use :	1 - Bull dozer	
		_			1 - Trackhoe	excavator
		_			1 - End Dum	os
		_				
		_			-	
			Permeability and	d Density Test Performed		
Lo	cation		% Compaction / % Moisture	Permeability		200 wash
	3 - 2		102% / 21.1%	10 -9		46.9
	A - 2		104% / 24.3			
			Photographs (e	explain activity for each)		
Photo #	69	End dump ur	nloading material.			
Photo #	70	Trackhoe loa	ding material in end dump).		
Photo #	71		ding material in end dump			
Photo #	72		end dump rolling material			
Photo #						
Photo #						
Photo #						
FIIOLO#	}					
Photo # Photo #						





Client :	Angelo's A	ggregate Ma	terials		Date:	9/29/2006
	Dade City		,		Work Order #:	17540
Project #:	80540-001	-02			Technician:	Mario
•					Report #:	SI#22
			Construction	Activity Observed		
Area Cons	tructed :	Cell #4				
Material Us	sed:	Clay				
Lift #		2	<u></u>			
Lift Thickness : 12"						
Weather:		Clear				
				Other Equipment in Use	1 Pull dozor	
Compactio	Compaction Equipment Used :			Other Equipment in Use	1 - Trackhoe exc	navator
					1 - End Dumps	.avatoi
					1 - Elia Damps	
						
			_	Density Test Performed		
Loc	ation	_	% Compaction / % Moisture	Permeability	_	200 wash
В	- 2	-	106% / 21.1%			
A	- 2	_	105% / 24.6%			
		_				
		_			_	
		_	Photographs (e)	oplain activity for each)		
Photo #	_73	Bull dozer p	oushing material.			
Photo #	74	Contractor	checking grade.			
Photo #	75	End dump	unloading material.			
Photo #	76	End dump	unloading material.			
Photo #					4	
Photo #						
Photo #						
Photo #						***
Photo #						
Photo #						-





Project Dade City Landill Work Order # : 17638 Project # : 80540-001-02 Technician : Mario Report # : \$123 Re	Client: Angelo's	Aggregate M	aterials				Date:	10/5/2006
Technician Mario Report # : St#23	·						Work Order #:	17638
Construction Activity Observed Area Constructed: Cell #4 Excavation Material Used: Clay Lift #							Technician :	Mario
Area Constructed: Cell #4 Excavation Material Used: Clay Lift #							Report #:	SI#23
Value Clay				Constru	ction Acti	vity Observed		
Location Equipment Used : Other Equipment in Use : 2 - Trackhoe excavator 3 - End Dumps Permeability and Density Test Performed **Compaction / ** **Moisture** Photographs (explain activity for each) Photo #	Area Constructed :	Cell #4 Exc	cavation					
Compaction Equipment Used :	Material Used :	Clay						
Compaction Equipment Used :	Lift #							
Permeability and Density Test Performed Permeability and Density Test Performed	Lift Thickness :						•	
Permeability and Density Test Performed **Compaction / % Moisture Permeability 200 wash **Photographs (explain activity for each) **Photo # Photo	Weather:	Clear	<u></u>		•			
Permeability and Density Test Performed **Compaction / % Moisture Permeability 200 wash **Photographs (explain activity for each) **Photo # Photo	Compaction Equipme	ent Used :			,	Other Equipment in Use:	2 - Trackhoe ex	cavator
Compaction	Compaction Equipm	om ooda.		***		_		
Compaction						_		
Compaction						_		
Compaction						-	-	
Compaction						_		
Compaction			Por	rmoahility	and Dans	ity Test Performed		
Photographs (explain activity for each) Photo #			% Compac	tion / %				200 wash
Photo #	Location	_	Widis	ture	•	retificability		
Photo #					-			-
Photo #					-			
Photo #					-		_	
Photo #			-		-		_	., <u>.</u> , , , , , , , , , , , , , , , , , , ,
Photo #			DI	t . avamb	o (ovalnim	activity for each \		
Photo #	S		۳۱	lotograpis	s (exhiaii	activity for each ,		
Photo # Photo								
Photo # Photo # Photo # Photo # Photo # Photo #								
Photo # Photo # Photo # Photo #								
Photo # Photo # Photo #								
Photo # Photo #								· · · · · · · · · · · · · · · · · · ·
Photo #							-	
		-						
				1.5			· · · · · · · · · · · · · · · · · · ·	
	Photo #			<u></u>				



Client: Angelo's	Aggregate N	Materials		Date:	10/6/2006
Project : Dade City		Tato Nation		Work Order #:	17369
				Technician:	Mario
Project #: 80540-00	11-02			Report #:	SI#24
		Construction	n Activity Observed	•	
Area Constructed:	Cell #4	00,101,00	,		
Material Used :	Clay				
Lift #	1				
Lift Thickness :	12"				
Weather: Clear					
Woulder.					
Compaction Equipme	ent Used :	3 - End dumps	Other Equipment in Use :	1 - Trackhoe exca	avator
				3 - End Dumps	
				2 - Bull dozers	
		Permeability and	Density Test Performed		
		% Compaction / %	,		
Location	_	Moisture	Permeability		200 wash
C - 6		108% / 17.8%	10 -9		58.1
C - 7		106% / 17.5%		_	
				<u> </u>	
	_	<u> </u>			
		Photographs (e	xplain activity for each)		
Photo #					<u></u>
Photo #					
Photo #					
Photo #					
Photo #					
Photo #					
Photo #					
Photo #					
Photo #					
, 11010 "					



Client: Angelo's	Aggregate N	<i>f</i> laterials		Date:	10/6/2006
Project : Dade City				Work Order #:	17369
Project #: 80540-00				Technician :	Mario
-				Report #:	SI#25
		Constructio	n Activity Observed		
Area Constructed:	Cell #4				
Material Used :	Clay				•
Lift #	2				
Lift Thickness :	12"				
Weather:	Clear				
Compaction Equipme	ent Used :	3 - End dumps	Other Equipment in Use :	1 - Trackhoe exc	cavator
				3 - End Dumps	
				2 - Bull dozers	
				 	
		Permeability and	Density Test Performed		
Location	_	% Compaction / % Moisture	Permeability	_	200 wash
C - 6	_	107% / 17.2%			
C - 8	_	109% / 16.9%	10 -7		51.7
C - 4		107% / 17.9%			
C - 5	_	108% / 18% ·	10 -8		53.5
			•		
		Photographs (e	xplain activity for each)		
Photo #					
Photo #					
Photo #					
Photo #					
Photo #					
Photo #					
Photo #					
Photo #			***		
Photo #			· · · · · · · · · · · · · · · · · · ·		
Photo #					



Client: Angelo's	Aggregate N	Materials		Date:	10/6/2006
Project : Dade City				Work Order # :	17369
Project #: 80540-00			•	Technician :	Mario
				Report #:	SI#26
		Construction	n Activity Observed		
Area Constructed :	Cell #4				
Material Used :	Clay				
Lift #	3				
Lift Thickness :	12"				
Weather :	Clear				
Compaction Equipme	ent Used :	3 - End dumps	Other Equipment in Use :	1 - Trackhoe exca	vator
				3 - End Dumps	
			·	2 - Bull dozers	
		Permeability and	Density Test Performed		
Location		% Compaction / % Moisture	Permeability		200 wash
C - 8	_	107% / 17.9%	<u></u>		
C - 7		105% / 17.2%	10 -7		47.5
C - 6		104% / 17.3%			
C - 4		107% / 17.8%	10 -8		55.2
				_	
		Photographs (e	oplain activity for each)		
Photo #	7	/ notographs (o.	tpiam donving for such ,		
	<u> </u>				
Photo #				- <u>-</u>	
Photo #					
Photo #	-				
Photo #	+				
Photo #					
Photo #	+		-	<u> </u>	
Photo #					
Photo #	1				



Client: Angelo's	Aggregate M	aterials		Date:	10/7/2006
Project : Dade City	Work Order #:	17370			
Project #: 80540-00	1-02			Technician :	Mario
				Report #:	SI#27
		Construct	ion Activity Observed		
Area Constructed:	Cell #4 Exc	cavation			
Material Used :	·				
Lift #					
Lift Thickness:					
Weather:	Clear				
Otina Faviran			Other Equipment in Use:	2 - Trackhoe exc	avator
Compaction Equipme	eni Osea .	·	Other Equipment in 900 t	2 - End Dumps	
				2 - Bull dozers	<u> </u>
				Z Dan dozoro	
			·		
			and Develop Test Devicement		
			nd Density Test Performed		
Location		% Compaction / % Moisture	Permeability		200 wash
	_				<u> </u>
	_				···
	_				
					
	_		<u> </u>		
		Photographs ((explain activity for each)		
Di i i		Filotograpiis	explain delivity for eachly		
Photo #	-				
Photo #	-				
Photo #					
Photo #	 				
Photo #	-				
Photo #					
Photo #					
Photo·#					<u> </u>
Photo #					
D1-4- //	1				



Client: Angelo's	Aggregate M	aterials				Date:	10/9/2006
Project : Dade City					Work Order #:	17721	
Project #: 80540-00						Technician :	Mario
						Report #:	SI#28
			Construction	n Activity	Observed		
Area Constructed :	Cell #4 Exc	cavation					
Material Used :							
Lift #							
Lift Thickness :							
Weather:	Clear						
Compaction Equipme	ent Used :			Ot	her Equipment in Use :	2 - Trackhoe ex	cavator
						2 - End Dumps	
						2 - Bull dozers	· · · · · · · · · · · · · · · · · · ·
		<u></u>					
		Pe	rmeability an	d Density 1	est Performed		
Location		% Compac			Permeability		200 wash
		•					
							
	_					<u>-</u>	
	_						
							
		р	hotographs ((explain act	ivity for each)		
Photo #					,		
Photo #							
Photo #							
Photo #							
Photo #							
Photo #			<u></u>				
Photo #			· ••				
Photo #			-				
Photo #				-			
Photo #							



Client :	Angelo's A	Aggregate Mat	erials		Date:	10/11/2006
Project :	Dade City	Landfill			Work Order # :	17747
Project #:	80540-00	1-02			Technician :	Mario
·					Report #:	SI#29
			Construction	Activity Observed		
Area Cons	structed :	Cell #4				
Material U	lsed :	Clay				
Lift #		1				
Lift Thickn	ness :	12"				
Weather:		Clear		·		
Compactiv	on Equipme	ant Head :	2 - End Dumps	Other Equipment in Use :	2 - Trackhoe exc	avator
Compacin	on Equipme		Z Ena Bampo		2 - End Dumps	
		•	· · · · · · · · · · · · · · · · · · ·		2 - Bull dozers	
		•				
			Permeability and	Density Test Performed		
Loc	cation		% Compaction / % Moisture	Permeability		200 wash
С	C - 3	-	106% / 19.6%	10 -7		47.2
					_	
		-				
		-				
-						
			Photographs (ex	oplain activity for each)		
Photo #	95	Trackhoe loa	ading end dump with materi	al		
Photo #	96	End dump u	nloading material.			****
Photo #	97		ushing material.			
Photo #	98		hecking grade.			***
Photo #						
Photo #			100			
Photo #						
Photo #	-					
Photo #					***	
Photo #						



UNIVERSAL FIGHTERING SCIENCES

Consultants in: Geotechnical Engineering • Environmental Sciences
Construction Materials Testing • Threshold Inspection • Private Provider Inspection

Client: Angelo's_	Aggregate M	aterials		Date:	10/11/2006
Project : Dade City				Work Order #:	17747
Project #: 80540-00		 		Technician :	Mario
				Report #:	SI#30
		Construction	n Activity Observed		
Area Constructed :	Cell #4				
Material Used :	Clay				
Lift #	2				
Lift Thickness :	12"				
Weather:	Clear				
Compaction Equipm	ant likad :	3 - End Dumps	Other Equipment in Use :	2 - Trackhoe ex	cavator
Compaction Equipm	en osea.	O Lina Dampo		3 - End Dumps	
				2 - Bull dozers	
			. .	•	
					
		Permeability an	d Density Test Performed		
		% Compaction / %			
Location	_	Moisture	Permeability	_	200 wash
C - 2		115% / 18.8%	10 -8		50.6
	_				
					
	_				
	_	Photographs (explain activity for each)		
Photo #					
Photo #					
Photo #					
Photo #					
Photo #					
Photo #					
Photo #					
Photo #					
Photo #					
Photo #					



Client: Angelo's	Aggregate N	Materials		Date:	10/11/2006
Project : Dade City			Work Order #:	17747	
Project #: 80540-00				Technician:	Mario
				Report #:	SI#31
		Construc	tion Activity Observed		
Area Constructed :	Cell #4				
Material Used :	Clay				
Lift #	3				
Lift Thickness :	12"				
Weather:	Clear				
Compaction Equipme	ent Used :	3 - End Dumps	Other Equipment in Use	: 2 - Trackhoe exca	vator
=			· ·	3 - End Dumps	
				2 - Bull dozers	
		Permeability a	and Density Test Performed		
Location		% Compaction / % Moisture	Permeability	_	200 wash
C - 2		108% / 20%			
	_ _				
	_			_	
	_				
	-	Photographs	(explain activity for each)		
Photo #					
Photo #					
Photo #					
Photo #					
Photo #					
Photo #					
Photo #		-	10.00		
Photo #					
Photo #					
Photo #					



Client: Angelo's	Aggregate Ma	aterials		Date:	10/12/2006
Project : Dade City	Work Order #:	17748			
Project # : 80540-00	1-02			Technician :	Mario
				Report #:	S1#32
		Construc	tion Activity Observed		
Area Constructed :	Cell #4 Exc	avation			
Material Used :					
Lift #					
Lift Thickness :					
	Clear	·····			
Compaction Equipme	ent Used :	,	Other Equipment in Use :	1 - Trackhoe exc	avator
				1 - End Dumps	
				1 - Bull dozers	
		Permeability a	and Density Test Performed		
		% Compaction / %			
Location	_	Moisture	Permeability	_	200 wash
	_			_	<u></u>
	_	-			
		Photographs	(explain activity for each)		
Photo #					
Photo #					
Photo #					
Photo #					
Photo #					
Photo #					
Photo #					
Photo #		-			
	<u> </u>			<u></u>	
Photo #	-	· · · · · · · · · · · · · · · · · · ·			

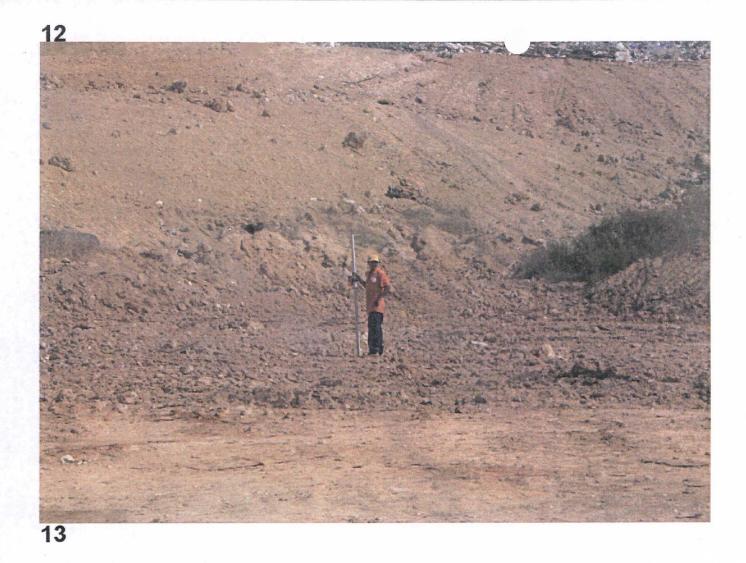


Client :	Angelo's A	Aggregate M	aterials			Date:	10/13/2006
Project :	Dade City	Landfill				Work Order # :	17749
Project #:	80540-001					Technician :	Mario
						Report # :	SI#33
			Co	nstruction Act	ivity Observed		
Area Cons	tructed :	Cell #4					
Material U	sed:	Clay					
Lift #		1					
Lift Thickne	ess:	12"					
Weather:		Clear					
Compaction	n Equipme	nt Used :	2 - End Dumps		Other Equipment in Use :		
					_	2 - End Dumps	
					_	1 - Bull dozers	
					_		
					_ ·		
			Permea	bility and Dens	sity Test Performed		
Loc	ation	_	% Compaction Moisture	/ %	Permeability		200 wash
С	- 1	_	106% / 20%	6 <u> </u>	10 -9		49.6
В	<u>- 1</u>	_	104% / 20.4	%			.,
Α	- 1	_	107% / 19.9	%			
		_		<u>_</u>		_	
		٦	Photog	ıraphs (explaiı	n activity for each)		
Photo #	4	Bull dozer	pushing material.	<u></u>			
Photo #	5	Trackhoe I	oading end dumps	with material.			
Photo #	6	Trackhoe I	oading end dumps	with material.			
Photo #	7	Trackhoe I	oading end dumps	with material.			
Photo #							
Photo #							
		ļ					
Photo #							
Photo # Photo #							٠





Client :	Angelo's A	ggregate M	aterials			Date:	10/14/2006
Project : Dade City Landfill						Work Order #:	17879
Project #:						Technician :	Mario
						Report # :	SI#34
			Cor	struction A	ctivity Observed		
Area Const	tructed :	Cell #4 Ex	cavation				
Material Us	sed :	Clay					
Lift #		1					
Lift Thickne	ess :	12"					
Weather:		Clear					
Compaction	n Fauinme	nt Used :			Other Equipment in Use	e: 1 - Trackhoe exc	avator
Compaction	ii Equipiiio	0000				1 - Bull dozers	
							
			-				
							· · · · · · · · · · · · · · · · · · ·
							
			Permeal	nility and De	nsity Test Performed		
			% Compaction /	-	•		
Loca	ation	_	Moisture		Permeability		200 wash
		_					
		_					
		_					4
		_					
,		7	Photogi	raphs (expl	ain activity for each)		
Photo #	12	Contractor	checking grade.				
Photo #	13	Trackhoe I	oading material for	lift 1.			
Photo #				<u></u>			
Photo #							
Photo #		****					
Photo #							
Photo #					the state of the s		
Photo #			Hardy a				
Photo #							
Photo #							

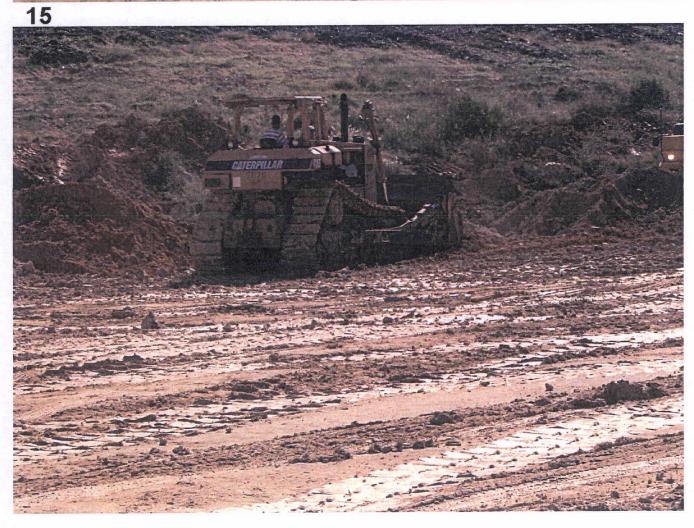






Client :	Angelo's	Aggregate M	laterials				Date:	10/16/2006
Project :	Dade City	Landfill					Work Order # :	17817
Project #:	80540-00	1-02					Technician :	Mario
•							Report #:	SI#35
				Construction	n Activity Obse	rved		
Area Cons	structed :	Cell #4 Ex	cavation					
Material U	sed :	-						
Lift #				 .				
Lift Thickne	ess:							
Weather:		Clear						
Compactio	n Equipme	ent Used :			Other Eq	uipment in Use :	2 - Trackhoe e	xcavator
							1 - Bull dozers	· · · · · · · · · · · · · · · · · · ·
							3 - End Dumps	S
				A-2011				
			Per	meability and	Density Test Pe	erformed		
Loc	ation		% Compact		Pe	rmeability	_	200 wash
		_						
		_					_	
		_		_				·
		_						
			Ph	otographs (ex	cplain activity fo	or each)		
Photo #	14	Bull dozer	pushing excav	ated material.				
Photo #	15	1	pushing excav					
Photo #								
Photo #								
Photo #	****						 -	
Photo #								
Photo #					· · · · · · · · · · · · · · · · · · ·			1
Photo #						·····	Mr ** n -	
Photo #					·			A Section 10
Photo #						L. L. L. S.		11100







Client :	Angelo's /	Aggregate M	laterials				Date:	10/17/2006
Project : Dade City Landfill							Work Order #:	17818
Project #: 80540-001-02							Technician:	Mario
							Report #:	SI#36
				Construction	n Activit	/ Observed		
Area Cons	structed :	Cell #4 Ex	cavation					
Material U	sed :							
Lift #								
Lift Thickn	ess:							
Weather:		Clear						
Compactio	on Equipme	ent Used :		***	c	ther Equipment in Use :	1 - Trackhoe exc	cavator
							3 - End Dumps	
					<u>-</u>			
			Pe	rmeability and	d Density	Test Performed		
			% Compac		•			
Loc	ation	_	Mois		_	Permeability		200 wash
		_			_		<u> </u>	
		_		<u></u>	_			
		_			_			
		_			_			
		_	Ph	otographs (e	xplain ac	tivity for each)		
Photo #	16	Trackhoe (excavating cel	l 4 and loading	end dum	р.		
Photo #								
Photo #								
Photo #								
Photo #								
Photo #				n				
Photo #		1						
Photo #								· · · · · · · · · · · · · · · · · · ·
Photo #		1						
Photo #								





Client :	Angelo's A	ggregate Ma	terials			Date:	10/18/2006
Project : Dade City Landfill						Work Order #	17822
Project #:	80540-001	-02				Technician :	Mario
						Report #:	SI#37
			(Construction A	ctivity Observed		
Area Const	tructed :	Cell #4				104	
Material Us	sed :	Clay					
Lift #		2	_ 				
Lift Thickne	ess:	12"					
Weather:		Cloudy / Rai	n				
Compactio	n Equipme	nt Used :	1 - End Dump		Other Equipment in Use :	1 - Trackhoe	excavator
					<u>.</u>	3 - End Dump	os
				<u> </u>		1 - Bull Dozer	r
			Perm	eability and De	nsity Test Performed		
	-A!		% Compactio		Permeability		200 wash
	ation	-			reinleadinty		200, 11011
	- 1	-	109% / 18			_	
	- 1	-	111.8% / 19				
A	- 1	=	108% / 18	.6%	·		
		-					·
	r	1		• , , ,	ain activity for each)		
Photo #	17	Trackhoe loa	ading end dum	with material.			
Photo #	18	End dumps	unloading mate	erial.	ATE 111 , 148		
Photo #	19	Bull dozer p	ushing material	-			
Photo #	20	Contractor c	hecking grade.				
Photo #	<u></u>						
Photo #							
Photo #							
Photo #							
Photo #							
Photo #	1						







Jeb Bush Governor Southwest District 13051 North Telecom Parkway Temple Terrace, FL 33637-0926 Telephone: 813-632-7600

Colleen M. Castille Secretary

November 16, 2006

Mr. Dominic Iafrate Angelo's Aggregate Materials, Ltd. 1755 20th Ave. S.E. Largo, Fl. 33771

RE:

Enterprise Recycling & Disposal Class III Landfill

Permit Nos.: 177982-001-SC and 177982-002-SO, Pasco County

Certification of Construction Completion, Cell 4 (approximately 7.34 acres)

Dear Mr. Iafrate:

The Department has reviewed the Certification of Construction Completion for the Cell 4, prepared by Mr. John Arnold, P.E., dated October 27, 2006 (received October 27, 2006). The certification of Cell 4 is <u>not approved</u>, at this time. The following information is needed to fully evaluate the information submitted.

1. Please provide surveys that indicate which layer is included in the survey (i.e., subbase or top of confining/clay layer).

2. Attachment C.

- a. Please provide the laboratory reports for the permeability testing.
- b. Please provide photographs that are numbered and correspond to the appropriate daily reports. Several of the reports reference photographs that are not located with the report for that specific date.
- c. The QA daily reports do not describe the activity observed, the occurrence of limestone or other problems encountered during construction. Some reports do not describe any observations, but only indicate "Cell #4."
- d. The Department was notified of an occurrence of limestone encountered in June 2006 located at the central part near the eastern boundary. The notification indicated that the elevation of the limerock was from +84ft. to 95 ft. NGVD. Discussion of this limerock occurrence was not included in the QA report. Based on the surveys provided, it appears that this material was completely excavated during construction. Please provide photographs that demonstrate that the limestone in this area was completely excavated prior to placing the clay layer.
- e. Please provide the dates that the clay layer was constructed for each of the grids shown in the Test Location Maps.
- f. Please specify the white material shown in the background of photo #55 (?) on 9/25/06 and in the photos from 10/13/06 and 10/17/06.
- g. Please explain why no photographs were taken from 10/5/06 through 10/10/06.

"More Protection, Less Process"

Please be advised that operation in Cell 4 is not authorized until the certification documentation is specifically approved by the Department. Please provide the requested information within 60 days of the date of this letter. If you have any questions, please contact me at: (813) 632-7600, ext. 386.

Sincerely,

Susan J. Pelz, P.E.

Solid Waste Program Manager

Southwest District

sjp

John Arnold, P.E., 34924 Williams Cemetery Rd., Dade City, Fl. 33525 Richard Tedder, P.E., FDEP Tallahassee Fred Wick, FDEP, Tallahassee Steve Morgan, FDEP Tampa John Morris, P.G., FDEP Tampa

2525B

Enterprise Class III Landfill Angelo's Aggregate Materials, Ltd. 41111 Enterprise Road Dade City, FL 33525

Dept. of Environmental Protection

OCT 27 2006

Southwest District

Cell 4
Construction Completion Report
FDEP Permits: 177982-001-SC & 177982-002-SO

(e11 4 cent 10/27/06

October 2006

(see 3-ning binder)

Dept. of Environmental Protection

OCT 27 2006

October 27, 2006

Southwest District

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

RE: Enterprise Class III Landfill

Cell 4 Construction Completion Report Angelo's Aggregate Materials, Ltd.

FDEP Permit Nos. 177982-001-SC and 177982-002-SO

Pasco County, Florida

Dear Ms. Pelz:

This report contains the Certification of Construction Completion (Certification) and Construction Quality Assurance (CQA) data for Cell 4 of the Enterprise Class III landfill and is being submitted to the Florida Department of Environmental Protection (Department) for review and approval.

The CQA program and certification reporting are based on the following requirements contained in Specific Condition 9.c. of FDEP Permit No. 177982-001-SC, as follows:

- a. Prepare and submit a Certification of Construction Completion, Form 62-701.900(2), signed and sealed by the professional engineer in charge of construction to the Department for approval. This information is provided in Attachment A.
- b. Prepare and submit Record Drawings showing all changes (i.e. additions, deletions, revisions to the plans previously approved by the Department including site grades and elevations). The Record Drawing is provided in Attachment B.
- c. Prepare and submit a narrative indicating all changes in plans and the cause of the deviations, and a report by the engineer of record to the Department to verify conformance with development of each cell. Each cell shall be over-excavated to approximately 3 feet below the approved excavation grade. Confining material, confirmed by laboratory testing to have a maximum hydraulic conductivity of

less than 1x10⁻⁶ cm/sec, shall be compacted over the floor of the cell in three 12in lifts as described in the documents referenced in SC 2e. inspection, performed independent Sciences (Universal) observation, and testing to comply with the requirements of this condition. The independent CQA report by Universal Earth Sciences is provided in Attachment C. The narrative report by the engineer of record is provided in Attachment D.

d. Prepare and submit financial assurance for the facility in accordance with F.A.C. 62-701.630. The updated financial assurance documentation includes Cells 3 and 4 and is provided in Attachment E. The revised letter of credit is on file with Fred Wick in the Tallahassee office of the FDEP.

We trust this submittal, along with the financial assurance update, will satisfy the Department's certification requirements. Please call me at 352.339.1408 if you have any questions or require any additional information.

Sincerely,

John Arnold, P.E.

State of Florida P.E. # 47164

34924 Williams Cemetery Road

Dade City, FL 33525

Attachments

cc: John Morris, P.G., FDEP Dominic Iafrate

Jeff Rogers

Attachment A

Certification of Construction Completion FDEP Form 62-701.900(2)



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

DEP Form # 62-701,990(2)
Form Title Certification of Construction Completion
Effective Date May 19, 1994

DEP	Application No.	 		
		(Filled	bv	DEP

Certification of Construction Completion of a Solid Waste Management Facility

_	
	ENVIRONMENTAL PROTECTION
	LINVIRONMENTAL DEPARTMENT
	OCT 27 2006
	-SOUTHING ~ 2006

DEP Construction Permit No: 177982-001-SC County: Pasco Solvery:
DEP Construction Permit No: 177982-001-SC County: Pasco SOUTHWEST DISTRIC
Name of Owner: Angelo's Aggregate Materials, Ltd.
Name of Engineer:
Type of Project: Cell 4 of the Class III Landfill; Certification of As-Built Drawings by
Simmons and Beall, Inc. Certification of clay and conformance testing Universal Engineering Sciences
Cost: Estimate \$ 100,000Actual \$ 100,000
Site Design: Quantity: 7500 cy/day ton/day Site Acreage: 5 (nominal) refer to drawings Acres
Deviations from Plans and Application Approved by DEP: The elevations indicated on the survey
exceed the minimum elevations are in general accordance with the requirements of the construction
permit. An off-road truck was used to compact the clay, rather than a dozer/roller, as was done for
prior cells. The conformance test results from Universal indicate the installed material is in general
accordance with the requirements of the construction permit.
Address and Telephone No. of Site: 41111 Enterprise Road, Dade City, FL 33525
(352) 567-7676
Name(s) of Site Supervisor: Mr. Jeff Rogers
Date Site inspection is requested: November 10, 2006
This is to certify that, with the exception of any deviation noted above, the construction of the project has been completed in substantial accordance with the plans authorized by Construction
Permit No. 177982-001-SC :Dated: October 5, 2001
Date: 10/27/06 Signature of Professional Engineer 10/27/06 Page 1 of 1 John Arnold 349 24 Williams Cometary Rd Pode City, FL 33525 FL PE# 47/64

Attachment B

Record Drawings Simmons & Beall, Inc. Topographic surveys, signed and sealed by a Florida registered Professional Surveyor and Mapper, of tops of both the over-excavated subgrade and the finished 3-foot thick confining layer are provided. The Surveyor of record is Simmons and Beall. The Surveyor also provided layout and grading control in the field during construction of the cell to monitor and verify conformance with the Department approved requirements.



Jeb Bush Governor Southwest District 13051 North Telecom Parkway Temple Terrace, FL 33637-0926 Telephone: 813-632-7600

Colleen M. Castille Secretary

Mr. Dominic Iafrate Angelo's Aggregate Materials, Ltd. 1755 20th Ave. S.E. Largo, Fl. 33771 April 25, 2006

RE:

Enterprise Recycling & Disposal Class III Landfill

Permit Nos.: 177982-001-SC and 177982-002-SO, Pasco County

Certification of Construction Completion, Cell 14 (5.78 acres), temporary stormwater pond

Dear Mr. Iafrate:

On March 8, 2006, an inspection of the above-referenced facility relative to construction completion and adherence to the permit issued by the Florida Department of Environmental Protection (FDEP) was made by Stephanie Watson, Jeff Glas and Mary Ellen Edwards (FDEP) and Jeff Rogers (Enterprise Landfill). Certification of Construction Completion dated September 19, 2005 (received September 20, 2005) and additional information dated December 9, 2005 (received December 16, 2005) and March 23, 2006 (received March 24, 2006), has been received by the Department. Based on the information submitted and the site inspection, the Department approves the construction certification for the use of Cell 14 as a temporary stormwater pond.

Please be reminded that prior to the proposed use of Cell 14 for waste disposal, a revised or updated Certification of Construction completion may be required by the Department based on the condition of the Cell 14 clay layer at that time.

Based on the site inspection and certification documentation, the Department <u>approves</u> the use of Cell 14 as a temporary stormwater pond in accordance with Operation Permit 177982-002-SO and the stormwater management permit (ERP) for the site (as appropriate). If you have any questions, you may contact me at (813) 632-7600 ext. 386.

Sincerely,

Susan J. Pelz, P.E

Solid Waste Program Manager

Southwest District

sjp

Jennifer Deal, P.E., Hartman & Associates, 201 E. Pine St., Ste. 1000, Orlando, Fl. 32801, w/attachment William Kutash, Waste Program Administrator, FDEP Tampa Fred Wick, FDEP, Tallahassee

Douglas Hyman, P.E., FDEP Tampa, ERP





Mark A. Rynning, P.E., M.B.A. James E. Christopher, P.E. Charles W. Drake, P.G. William D. Musser, R.E., P.H. Lawrence E. Jenkins, P.S.M. Jon D. Fox, P.E. Jill M. Hudkins, P.E.

Roderick K. Cashe, P.E. Douglas P. Dufresne, P.G. Daniel M. Nelson, P.E.

Andrew T, Woodkock, P.E., M.B.A. John P. Toomey, P.E. Jennifer L. Woodall, P.E. Vallerie C, Davis, P.G. Charles M. Shuttz, P.E. Sean M. Parks, AICP, QEP W. Bruce Lairenz, P.G. James R, Warner, P.E. March 23, 2006

Via UPS Overnight

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

Subject: Confining Material Verification, Cell 14 West Side Slope

Enterprise Recycling & Disposal Facility FDEP Permit No. 177982-001-SC/MM

Specific Condition No. 5) a) 1) & Attachment 1

Pasco County, Florida

Tt HAI # 98.0104.023, File 12.0

Dear Ms. Pelz:

On behalf of Angelo's Aggregate Materials, Ltd. (Angelo's) and consistent with our recent discussions, Tetra Tech HAI (Tt HAI) is submitting this summary of field borings completed on March 7, 2006 at the above facility. More specifically, the borings were performed on the west side slope of Cell 14 in the location where limestone fragments were encountered in heavy clay during construction of Cell 14 as part of the temporary stormwater pond.

During this construction, Angelo's excavated the area where the limestone fragments were found and placed back at least three feet of compacted clay obtained from on-site stockpiled confining material. As discussed with the Department on February 28, 2006, Tt HAI's professional geologist was to perform borings in this area with a hand auger to confirm the presence of confining material.

Tt HAI's professional geologist completed five borings to a depth of three feet in this location. At boring location AB-3, one small limestone fragment (2-3 inches in diameter) was found. The boring was moved approximately 1-foot from the original location to check for additional fragments. No additional fragments were found in any of the borings and we believe the one fragment found to be incidental and of no consequence.

Boring logs and a survey of the locations are attached for your review. Based on the surveyed locations, the area where limestone fragments were encountered is west of the designed pond slope, above the elevation of the temporary pond (top of bank of the temporary pond is 80 ft, NGVD).

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

MAR 24 2006

SOUTHWEST DISTRICT

201 East Pine Street, Suite 1000, Orlando, FL 32801 Tel 407,839,3955 Fax 407,839,3790 www.tetratech.com

(See Board Report)

TETRATECH I



Ms. Susan J. Pelz, P.E. March 23, 2006 Page 2

Based upon our discussions, it is my understanding that the Department will accept the foregoing as compliant with the certification requirements of Specific Condition No. 5) a) 1) and Attachment 1 of FDEP Permit No. 177982-001-SC/MM.

Please call me if you have any questions.

Very truly yours,

Tetra Tech HAI

Miguel Gargia, P.G.

Project Hydrogeologist

MAG/sma/98.0104.023/corresp/pelz-2.jld.doc

cc:

Jeff Rogers, Angelo's

Joe Polito

HARTMAN & ASSOCIATES, INC. crigineers. hydrogeologists. surveyors & management consultants

<u></u>							ORLANDO • FT MYERS • PLANTATION • JACKSONMILE		v		
					·		FIELD BORING LOG		 NCTA	AB-1	(of (
ОЕРТН (FT)	NO/TYPE S	1	% REC.	BLOWS PER 6"	N-VALUE	BORING LOG	MATERIAL DESCRIPTION CLASSIFICATION	MELL	REMARKS	PROJECT A	
14							CHMEN-SAND, LIGHT GAMY TO STIT, VENY FIRM, OT' STUTY. CLAYEY-JAND, ONLY OF TO DANK ONEN FINE TO STUT, VENY PENM TO FILMM. 1-3'		THO N CEMENTS LAWD JON O 2.5	CLIENT: LOCATION: BORING GR. ELEV: DIA-TYPE: 3.5" - DEPTH: 3. DATE STARTED: 3. DATE ENDED: 3 GROUNDW DEPTH: TIME:	BUCKER POST POST POST POST POST POST POST POST
										CREW: SUPERVISOR: PIEZ/WE CASING DIAM: CASING TYPE: CASING DEPTH:	LL LL
										SCREEN DEPTH: SCREEN LENGTH: FILTER PACK: RISER HEIGHT ALS	:
 0			 - - - -			-	b			REMARK	<u>(S</u>



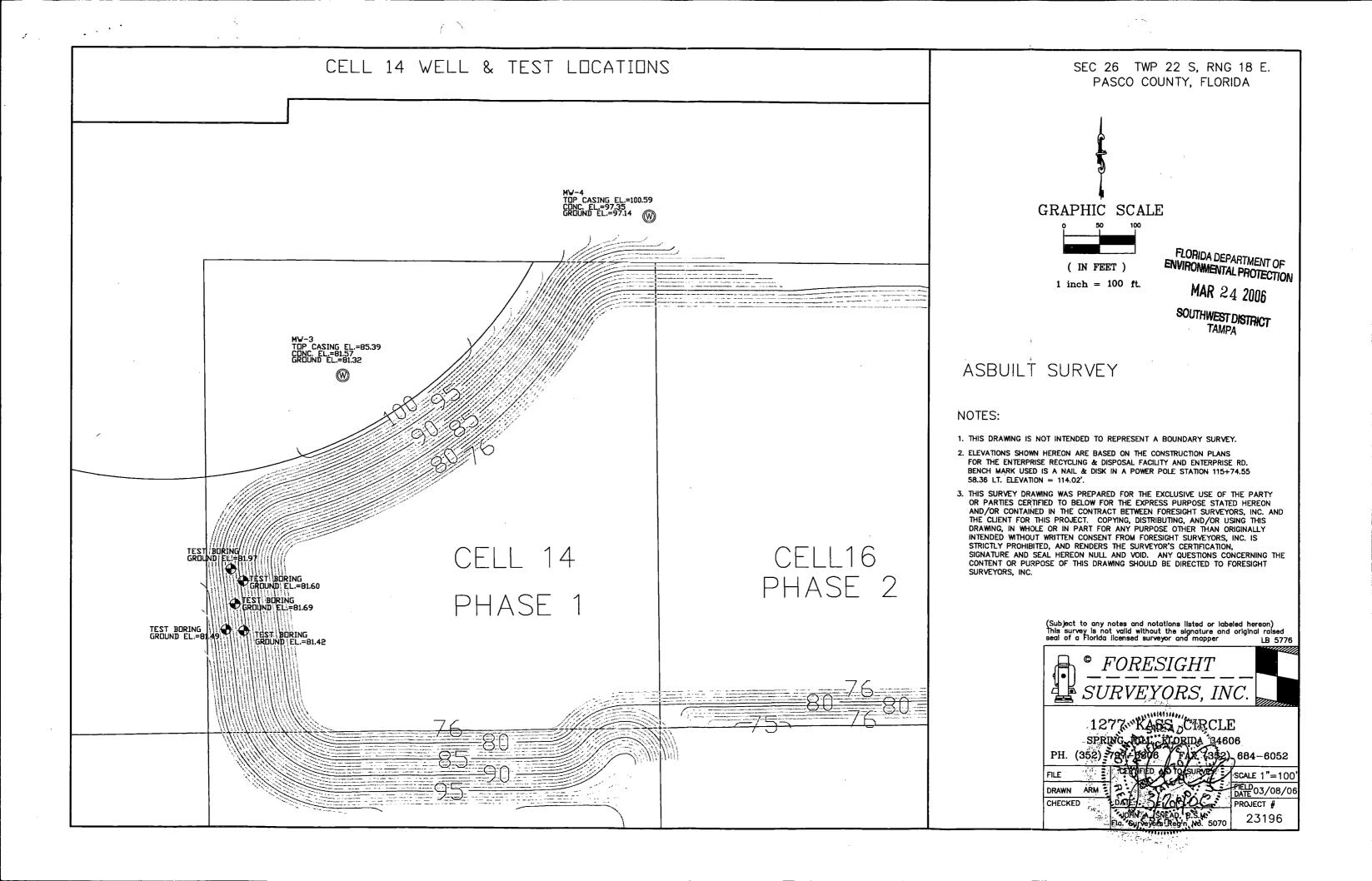
							ORLANDO 9 FT. MYERS 9 PLANTATION 9 LACKSONVILLE	• DES	TIN	
							FIELD BORING LOG		MICIA	AB-3 Loft
ОЕРТН (FT)	NO/TYPE W	PLE	6 REC. '''	SLOWS PER 6"	N-VALUE	BORING LOG	MATERIAL DESCRIPTION CLASSIFICATION	WELL	REMARKS	PROJECT NAME: FNIENPRISE
					ı		STUTY-CLAYEY- BAND, DANK ONAWGET LIBIT GRAY (MOTTETS) FENT TO SELT, MOD. CLAY, FIRM TO V. FERM. 0-1.75'		·	CLIENT: ANG LOCATION: DAGE OF BORING GR. ELEV: DIA-TYPE: 3.5" -BA
7.8							JANDY CLAY, LEGOT GAMY ONLINE (MOTTLES), LOW TO MENON SAND,	4	5mml 65 Facto. 2.0'	DEPTH: 3' DATE STARTED: 3-7-4 DATE ENDED: 3-7-4 GROUNDWATER DEPTH:
- - - 5@							STUTY - CHAYEY, - JAMO, DANKE OUNGE + GAY (MOTTLES FINE TO STUTY, MOD. TO		12,00	TIME: DATE: REMARKS: DRILLING RIG TYPE:
							V. FTMM. J. 5-3.0' EOB & 3'			CREW: SUPERVISOR: PIEZ/WELL CASING DIAM: CASING TYPE:
										CASING DEPTH: SCREEN DEPTH: SCREEN LENGTH: FILTER PACK: RISER HEIGHT ALS:
-										T.O.C. ELEV: REMARKS



	ORLANDO • FT. MYERS • PLANTATION • MOSSOMMLE • DESTIN										
						,			meth	A13-4	(of (
рертн (FT)	NO/TYPE S			BLOWS PER 6"	N-VALUE	BORING LOG	MATERIAL DESCRIPTION CLASSIFICATION	WELL	REMARKS	PROJE	
14							Chapty - Sano, Dank Dank Danker MED. TO STATI MOD. CLAY, FIRM, 0'-1.5' SANOY - CLAY, LEGAT GAY ONNOT CANTED), LOW SANO CANTENT, VERY FIRM. 1.5-2-5'	Ł		CLIENT LOCATION: DATE BORIN GR. ELEV: DIA-TYPE: 3.5 " DEPTH: 3 DATE STARTED: DATE ENDED: 3 GROUNDY	1G -BA 5-7-46 ,-7-46
24 							STUTY-CLAYEY. SAND, DANK OVANGE, FENE TO STLT, FIRM TO U. FTRM, HTG CLAY, 2-5-3.0'	ţ		DEPTH: TIME: DATE: REMARKS: DRILLI	
- - 0							F00 @ 3.2			RIG TYPE: CREW: SUPERVISOR: PIEZ/W CASING DIAM: CASING TYPE:	ELL
	1									CASING DEPTH: SCREEN DEPTH: SCREEN LENGTH FILTER PACK: RISER HEIGHT A	ł:
										T.O.C. ELEV:	RKS



<u> </u>							ORLANDO • FT. MYERS • PLANTATION • JACKSONVILLE			
							FIELD BORING LOG	_	»mea	40-5 tof1
ОЕРТН (FT)	NO/TYPE S		% REC.	BLOWS PER 6"	ALUE	RING LOG	MATERIAL DESCRIPTION CLASSIFICATION	WELL	REMARKS	PROJECT NAME: FN (EMPLIE) L
DEF	NO.	SYA	ጸ %	BLC	2	OB B	comen-sons, on set			CLIENT: ANCEY
-	1						What Gray (MOTTER),			LOCATION: DATA CATA
-							FERE TO STUT, V. FERM.			BORING
-							0:0.1,			GR. ELEV:
-							source - crosy wort court	Ш		DIA-TYPE: 3.5"-BA
							over of (mother), Fine			DEPTH: 3'
_	1						TO STUT, HIGH CLAM, WW			DATE STARTED: 3-7-06
							SAND: 0.5' - 1.75'			DATE ENDED: 3-7-\$6
-	1									GROUNDWATER
24							stum-comen sound	f		DEPTH:
							GIVY LMOTTED), FINE			TIME:
_							TO SILT VERY FIRM			DATE:
							NOO. SAND. 1.75'-3.0'			REMARKS:
										DRILLING
3] .						to 8 @ 3.0°			RIG TYPE:
										CREW:
_										SUPERVISOR:
										PIEZ/WELL
										CASING DIAM:
0].						·	Ш		CASING TYPE:
										CASING DEPTH:
										SCREEN DEPTH:
										SCREEN LENGTH:
										FILTER PACK:
5										RISER HEIGHT ALS:
										T.O.C. ELEV:
]									REMARKS
]									
0]						•			







Source of these photos unknown 4/25/06





TETRA TECH HAI

Mark A. Rynning, P.E., M.B.A., James E. Christopher, P.E. Charles W. Drake, P.G. William D. Musser, P.E., P.H. Lawrence E. Jenkins, P.S.M.

Roderick K. Cashe, P.E., Douglas P. Dufresne, P.G. Jon D. Fox, P.E., Daniel M. Nelson, P.E.

Andrew T. Woodcock, PE, M.B.A. John P. Toomey, PE. Jennifer T. Woodalf, PE. Rafael A. Terror, PE. DEE Jill M. Hudsins, PE. Valerie C. Davis, PG. Charles M. Shultz, PE. Saan M. Parks, AICP, OEP W. Bruce Laffenz, RG. Alovis K. Stewart, PE. Christopher W. Hardin, PE. James R. Warner, PE. December 9, 2005

Via UPS Ground

Ms. Susan Pelz, P.E. Florida Department of Environmental Protection Southwest District 3804 Coconut Palm Drive Tampa, Florida 33619

Subject:

Response to Comments, dated December 5, 2005

Enterprise Recycling & Disposal Facility

FDEP Permit No. 177982-001-SC, 177982-002-SO

Pasco County, Florida

Tt HAI #99.0331.023, File 12.0

Dear Ms. Pelz:

On behalf of Angelo's Aggregate Materials, Ltd. (Angelo's), Tetra Tech HAI (Tt HAI) is submitting this response to your comments, dated December 5, 2005, regarding the certification of the confining layer for Cell 14 at the above facility. Your comments are stated first with our responses following.

Comment 1: Please provide a figure that shows the locations of permeability retests # RT-1, RT-2, and RT-3.

Response: The retest locations were performed in the locations of the original permeability tests. The locations are summarized in the following table.

Retest #	Original Test #	Location
RT-1	2-4	2-4 / 2059
RT-2	3-3	3-3 / 2064
RT-3	3-4	3-4 / 2065

The test locations are listed on the Test Results sheet, Report No. PW #1. The original locations were indicated on the figures previously provided by Universal Engineering Sciences.

Comment 2: Photos # 4, 6F, and 7G (attached for reference) appear to show a white material in a layer in the background, being dumped into the cell as part of the construction, and at the permeability location stake. Please clarify what this White/gray material is. In the event that limestone was encountered during construction, please provide a figure that delineates the extent of the limestone encountered.

FLORIDADEPARTMENT OF ENVIRONMENTAL PROTECTION

DEC 16 2005

SOUTHWEST DISTRICT TAMPA

TETRA TECH HAI



Ms. Susan Pelz, P.E. December 9, 2005 Page 2

Response: The white/gray material being dumped into Cell 14 for construction and at the permeability location stake is confining material (white/gray clay material). The white/gray material in the background of the photos is limestone fragments and white clay. A small area of limestone was encountered on the west side slope of Cell 14 during excavation.

During the previous construction permit modification for this facility, Angelo's voluntarily agreed to a condition requiring the construction of a three-foot thick confining layer at the base of each landfill cell. Angelo's did not realize that the condition requiring Department notification upon finding limestone during construction was still included in the permit, as they assumed this condition was removed and replaced with the above mentioned confining layer condition. As a result, Angelo's did not notify Tt HAI or the Department of this finding. This was a misunderstanding on the part of Angelo's. Please see the attached map, provided by Angelo's, indicating the area where limestone was encountered.

Since the modified construction permit requires construction of the three-foot confining layer, Angelo's requests to revise the construction permit to remove the notification requirement.

We trust this response will satisfy the Department's concerns. Please call me if you have any further questions.

Very truly yours,

Tetra Tech HAI

Jennifer L. Deal, P.E.

Project Manager

JLD/cr/99.0331.023/corresp/PELZ1

cc: Jeff Rogers, Angelo's

8



Jeb Bush Governor Southwest District 3804 Coconut Palm Drive Tampa, Florida 33619

Colleen M. Castille Secretary

Mr. Dominic Iafrate Angelo's Aggregate Materials, Ltd. 1755 20th Ave. S.E. Largo, Fl. 33771

December 5, 2005

RE:

Enterprise Recycling & Disposal Class III Landfill

Permit Nos.: 177982-001-SC and 177982-002-SO, Pasco County

Certification of Construction Completion, Cell 14 clay layer only (approximately 5 acres)

Dear Mr. Iafrate:

The Department has reviewed the Certification of Construction Completion for the Cell 14 confining layer, prepared by Tetra Tech HAI dated September 19, 2005 (received September 20, 2005). The following information is needed to fully evaluate the information submitted.

- 1. Please provide a figure that shows the locations of permeability retests # RT-1, RT-2 and RT-3.
- 2. Photos # 4, 6F and 7G (attached for reference) appear to show a white material in a layer in the background, being dumped into the cell as part of the construction, and at the permeability location stake. Please clarify what this whit/gray material is. In the event that limestone was encountered during construction, please provide a figure that delineates the extent of the limestone encountered.

Please provide the requested information within 45 days of the date of this letter. As you may be aware, the Department's Southwest District office is relocating in mid-December. After December 12, 2005, correspondence should be sent to: 13051 North Telecom Parkway, Temple Terrace, FL 33637-0926, and I may be contacted at: (813) 632-7600, ext. 386.

Sincerely,

Susan J. Pelz, P.E.

Solid Waste Program Manager

Southwest District

sjp Attachment

Jennifer Deal, P.E., Tetra Tech HAI, 201 E. Pine St., Ste. 1000, Orlando, Fl. 32801, w/attachment

Fred Wick, FDEP, Tallahassee Steve Morgan, FDEP Tampa, SW John Morris, P.G., FDEP Tampa, SW Douglas Hyman, P.E., FDEP Tampa, ERP



TETRA TECH HAI

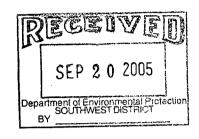
Mark A. Rynning, P.E., M.B.A. James E. Christopher, P.E. Charles W. Drake, P.G. William D. Musser, P.E., P.H. Lawrence E. Jenkins, P.S.M.

Roderick K. Cashe, P.E. Douglas P. Dufresne, P.G. Jon D. Fox, P.E. Daniel M. Nelson, P.E.

Andrew T. Woodcock, P.E., P.1.B.A. John P. Toomey, P.E. Jennifer L. Woodall, P.E. Rafael A. Terrero, P.E., D.E. Jiff M. Huddins, P.E. Valerie C. Davis, P.G. Charles M. Shultz, P.E. Sean M. Parks, AICP, Q.E.P. W. Bruce L. Edrera, P.G. Alexis K. Stewart, P.E. Christopher W. Hardin, P.E. James R. Warner, P.E. September 19, 2005

Via UPS Overnight

Ms. Susan Pelz, P.E.
Florida Department of Environmental Protection
Southwest District
3804 Coconut Palm Drive
Tampa, Florida 33619



Subject:

Cell 14 Confining Layer Certification Enterprise Recycling & Disposal Facility Angelo's Aggregate Materials, Ltd.

FDEP Permit Nos. 177982-001-SC, 177982-002-SO

Pasco County, Florida

Tt HAI #99.0331.023 File 12.0

Dear Ms. Pelz:

On behalf of Angelo's Aggregate Materials, Ltd. (Angelo's), Tetra Tech HAI (Tt HAI) is submitting this certification for the confining layer in Cell 14 at the above referenced facility. Confining layer construction activities were completed in May 2005. The certification form is included in Appendix A.

Specific Condition 9.c of the facility construction permit #177982-001-SC, in part, states "The maximum hydraulic conductivity below or as part of each cell floor shall be less than 1×10^{-6} cm/sec in a continuous layer of at least 36 inches in thickness, unless otherwise approved in writing by the Department."

Confining Layer Construction

Construction of the confining layer in Cell 14 was performed in concurrence with raising the cell floor elevation in Cell 15, in accordance with FDEP stormwater permit #51-0172489-007. A representative of Universal Engineering Sciences (UES) was on-site to document construction activities and verify that the work was performed to Tt HAI's criteria. This included verification of the use of appropriate confining material and compaction equipment, coordination with Foresight Surveyors, Inc. (Foresight) for documentation of the excavation and fill elevations, and on-site soil testing and permeability test sample collection. Angelo's used a track hoe to excavate the cell. Foresight verified the excavation grades to ensure that the appropriate base elevation was achieved. Surveys of the constructed areas were also completed to ensure the appropriate cell floor grades and confining material thickness were achieved. Copies of the excavation and fill as-built surveys, including the cell boundaries, are attached for your review in Appendix B.

201 East Pine Street, Suite 1000, Orlando, FL 32801 Tel 407.839.3955 Fax 407.839.3790 www.tetratech.com

(see Bornd Report)



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

DEP Form # 62-701,900(2)
Form Title Certification of	Construction Completion
Effective Date May 19, 19	
DEP Application No.	
22. 7.77	(Filled by DEP)
	(Filled by DEP)

Certification of Construction Completion of a Solid Waste Management Facility

DEP Construction Permit No: 177982-001-SC	County: Pasco	
Name of Project: Enterprise Recycling & Disposal Faci	lity	
Name of Owner: Angelo's Aggregate Materials, Ltd.		
Name of Engineer: Tetra Tech HAI		
Type of Project: Confining layer certification for Cell 14		
See attached surveys from Foresight Surveyors for as	-built elevations.	
Cost: Estimate \$ 100,000	Actual \$ 150,000	·
	ite Acreage: 5.78	Acres
Deviations from Plans and Application Approved by	DEP: Initially, Cell 14 will serve as	a part of the
temporary stormwater pond. The elevations indicated		
with the requirements of the above construction permi	t. A loaded articulating dump truck	weighing
approximately 130,000 lbs. was used to compact the r	material, rather than a dozer and rol	ler as
specified in the Engineering Report. The end result of	compaction met the required perme	eability.
Address and Telephone No. of Site: 41111 Enterprise	e Road, Dade City, FL 33525	100
352-567-7676		
Name(s) of Site Supervisor: Jeff Rogers		
Date Site inspection is requested: September 27, 200	5	
This is to certify that, with the exception of any of project has been completed in substantial accordance	deviation noted above, the const e with the plans authorized by Con	ruction of the nstruction
Permit No. <u>177982-001-SC</u> :D	Pated: October 5, 2001	
Date:	Signature of Professional Engin	eer
	Digitature of 1 foressional Digit	Hartman & Assoc 201 E. Pine St., S
Page 1 c	of 1	Orlando, El 3280

Exerida Registration 9/19/05 0000058592

Engineering Business # 5814 Jennifer L. Deal, P.E.



Jeb Bush Governor Southwest District 13051 North Telecom Parkway Temple Terrace, FL 33637-0926 Telephone: 813-632-7600

Colleen M. Castille Secretary

Mr. Dominic Iafrate Angelo's Aggregate Materials, Ltd. 1755 20th Ave. S.E. Largo, Fl. 33771

February 17, 2006

RE:

Enterprise Recycling & Disposal Class III Landfill

Permit Nos.: 177982-001-SC and 177982-002-SO, Pasco County

Certification of Construction Completion, Cell 5 (approximately 7.34 acres)

Dear Mr. Iafrate:

The Department has reviewed the Certification of Construction Completion for the Cell 5, prepared by Tetra Tech HAI dated February 2, 2006 (received February 3, 2006). The following information is needed to fully evaluate the information submitted.

1. The construction of Cell 5 was conducted contrary to the approved construction sequence in Permit No. 177982-001-SC. Approval of this construction certification is therefore pending issuance of permit modification No. 177982-010-SC and the Department's authorization to operate in Cell 5 is pending issuance of permit modification No. 177982-009-SO. Upon issuance of the permit modifications, the Department will issue approval of the construction certification of Cell 5 and authorization to operate.

Please be advised that under no circumstances is the permittee to begin operation in Cell 5 prior to issuance of the pending permit modifications and receipt of approval of the certification of construction completion and authorization to operate from the Department.

If you have any questions, you may contact me at (813) 632-7600 ext. 385.

Sincerely

Steven G. Morgan

Solid Waste Section Southwest District

sgm cc:

Jennifer Deal, P.E., Tetra Tech HAI, 201 E. Pine St., Ste. 1000, Orlando, Fl. 32801, w/attachment Fred Wick, FDEP, Tallahassee

Susan Pelz, P.E., FDEP Tampa, SW John Morris, P.G., FDEP Tampa, SW



Jeb Bush Governor Southwest District 13051 North Telecom Parkway Temple Terrace, FL 33637-0926 Telephone: 813-632-7600

Colleen M. Castille Secretary

Mr. Dominic Iafrate Angelo's Aggregate Materials, Ltd. 1755 20th Ave. S.E. Largo, Fl. 33771

February 17, 2006

RE:

Enterprise Recycling & Disposal Class III Landfill

Permit Nos.: 177982-001-SC and 177982-002-SO, Pasco County

Certification of Construction Completion, Cel 15 (approximately 7.34 acres)

Dear Mr. Iafrate:

The Department has reviewed the Certification of Construction Completion for the Cell 15, prepared by Tetra Tech HAI dated February 2, 2006 (received February 3, 2006). The following information is needed to fully evaluate the information submitted.

1. The construction of Cell 15 was conducted contrary to the approved construction sequence in Permit No. 177982-001-SC. Approval of this construction certification is therefore pending iscurace of permit modification No. 177982-010-SC and the Department's authorization to operate in Cell 15 is pending issuance of permit modification No. 177982-009-SO. Upon issuance of the permit modifications, the Department will issue approval of the construction certification of Cell 15 and authorization to operate.

Please be advised that under no circumstances is the permittee to begin operation in Cell 15 prior to issuance of the pending permit modifications and receipt of approval of the certification of construction completion and authorization to operate from the Department.

If you have any questions, you may contact me at (813) 632-7600 ext. 385.

Sincerely,

Steven G. Morgan

Solid Waste Section

Southwest District

sgm

Jennifer Deal, P.E., Tetra Tech HAI, 201 E. Pine St., Ste. 1000, Orlando, Fl. 32801, w/attachment

Fred Wick, FDEP, Tallahassee Susan Pelz, P.E., FDEP Tampa, SW John Morris, P.G., FDEP Tampa, SW Represent Typos Corrected 2/21/06





Jeb Bush Governor Southwest District 3804 Coconut Palm Drive Tampa, Florida 33619

Colleen M. Castille Secretary

Mr. Dominic Iafrate Angelo's Aggregate Materials, Ltd. 1755 20th Ave. S.E. Largo, Fl. 33771

August 9, 2005

RE:

Enterprise Recycling & Disposal Class III Landfill

Permit Nos.: 177982-001-SC and 177982-002-SO, Pasco County Certification of Construction Completion, Cell 15 (6.23 acres)

Dear Mr. Iafrate:

On August 2, 2005, an inspection of the above-referenced facility relative to construction completion and adherence to the permit issued by the Florida Department of Environmental Protection (FDEP) was made by Susan Pelz, P.E., Lora Ross, Bret Galbraith (FDEP) and Jeff Rogers (Enterprise Landfill). Certification of Construction Completion dated June 20, 2005 (received June 21, 2005) and proof of financial assurance (received July 29, 2005), has been received by the Department. Based on the information submitted and the site inspection, the Department approves the construction certification for Cell 15.

The Department has also received photographs of Cell 15 taken on August 4, 2005 (received August 8, 2005) demonstrating that the ponded water observed in the Cell on August 2, 2005 has been removed. Based on the site inspection, certification documentation and the photographs provided, the Department approves the operation in Cell 15 in accordance with Operation Permit 177982-002-SO. If you have any questions, you may contact me at (813) 744-6100 ext. 386.

Sincerely,

Susan J. Pelz, P.E.

Solid Waste Program Manager

Southwest District

sjp

Jennifer Deal, P.E., Hartman & Associates, 201 E. Pine St., Ste. 1000, Orlando, Fl. 32801, w/attachment William Kutash, Waste Program Administrator, FDEP Tampa Richard Tedder, P.E., FDEP Tallahassee (email) Fred Wick, FDEP, Tallahassee Douglas Hyman, P.E., FDEP Tampa, ERP

Angelo's Aggregate Materials LTD. dba Angelo's Recycled Materials

41111 Enterprise Rd
Dade City, FL 33525
(352)567-7676 FAX:(352)567-9448

August 4, 2005

FDEP Solid Waste Section Attn: Susan Pelz P.E. 3804 Coconut Palm Drive Tampa, FL 33619

Dear Susan,

Please find attached pictures of Cell 15. The cell had dried except for a few small puddles which we graded the surface with a dozer there is no ponding water. If you have any questions plplease call me anytime @ 352-302-8934.

Thank, youn

Landfill Manager

Department of Frances Tolks France











Jeb Bush Governor Southwest District 3804 Coconut Palm Drive Tampa, Florida 33619

Colleen M. Castille Secretary

Mr. Dominic Iafrate Angelo's Aggregate Materials, Ltd. 1755 20th Ave. S.E. Largo, Fl. 33771

August 3, 2005

RE:

Enterprise Recycling & Disposal Class III Landfill

Permit Nos.: 177982-001-SC and 177982-002-SO, Pasco County Certification of Construction Completion, Cell 15 (6.23 acres)

Dear Mr. Iafrate:

On August 2, 2005, an inspection of the above-referenced facility relative to construction completion and adherence to the permit issued by the Florida Department of Environmental Protection (FDEP) was made by Susan Pelz, P.E., Lora Ross, Bret Galbraith (FDEP) and Jeff Rogers (Enterprise Landfill).

Certification of Construction Completion dated June 20, 2005 (received June 21, 2005) and proof of financial assurance (received July 29, 2005), has been received by the Department. Based on the information submitted and the site inspection, the Department approves the construction certification for Cell 15.

However, operation in Cell 15 is **not authorized** until the ponded water in the cell has been sufficiently removed. As discussed at the site inspection, please provide photographs of the cell after the water has been removed and prior to placement of waste for Department review and approval. Operation in Cell 15 shall not begin without specific written approval from the Department. If you have any questions, you may contact me at (813) 744-6100 ext. 386.

Sincerely,

Susan J. Pelz, P.E.

Solid Waste Program Manager

Southwest District

sjp

Jennifer Deal, P.E., Hartman & Associates, 201 E. Pine St., Ste. 1000, Orlando, Fl. 32801, w/attachment William Kutash, Waste Program Administrator, FDEP Tampa Richard Tedder, P.E., FDEP Tallahassee (email)
Fred Wick, FDEP, Tallahassee

Douglas Hyman, P.E., FDEP Tampa, ERP

Pelz, Susan

From:

Jennifer L. Deal, P.E. [Jennifer.deal@tetratech.com]

Sent:

Wednesday, July 27, 2005 8:13 AM

To:

Pelz, Susan

Subject:

RE: Enterprise Landfill

Susan,

Thank you for your quick reply. I will forward the information to Angelo's accordingly.

Jennifer

----Original Message----

From: Pelz, Susan [mailto:Susan.Pelz@dep.state.fl.us]

Sent: Wednesday, July 27, 2005 8:09 AM

To: Jennifer.deal@tetratech.com

Cc: Petro, Stephanie; Morgan, Steve; Morris, John R.; Wick, Fred; Cleary,

Subject: RE: Enterprise Landfill

Jennifer.

As your client should be aware, Specific Condition #7 of Operation Permit 177982-002-SO requires that "prior to operation/acceptance of waste into each new disposal area (cell), the activities described in the current construction permit shall be completed and submitted by the permittee, and approved by the Department.'

As we discussed, the Department has reviewed the survey information you provided, and has no comments. However, to date, the Department has not received confirmation of adequate proof of financial assurance, and has not inspected and approved the newly constructed cell. Please note that the permit and Rule requires that proof of financial assurance not only be submitted to, but also be approved by, the Department. If the documentation is submitted on July 28, 2005, it is unlikely that it will be approved by August 1, 2005.

In the event that the permittee elects to proceed with waste disposal in this cell (Cell 15) prior to approval of the financial assurance mechanism and the certification documents, the facility will be out of compliance with its permit. Please be reminded that the Department may initiate enforcement actions to ensure compliance with the permit.

I trust you will forward this information on to your client.

Susan J. Pelz, P.E. Solid Waste Program Manager Southwest District $813 - 744 - 6100 \times 386$ susan.pelz@dep.state.fl.us

----Original Message----

From: Jennifer L. Deal, P.E. [mailto:Jennifer.deal@tetratech.com]

Sent: Tuesday, July 26, 2005 5:33 PM

To: Pelz, Susan

Subject: Enterprise Landfill

Susan,

At the request of Angelo's Aggregate Materials, Ltd. (Angelo's), I am

sending this notification that Angelo's intends to begin waste uisposal operations in Cell 15 at their Enterprise Recycling and Disposal Facility on Monday, August 1, 2005. The updated financial assurance calculation has been approved and Mr. Iafrate informed me that the updated Letter of Credit should be received by the FDEP Solid Waste Financial Coordinator by Thursday, July 28, 2005.

Please feel free to contact me if you have any questions. Thank you.

Jennifer L. Deal, P.E. Tetra Tech HAI 201 E. Pine Street, Ste. 1000 Orlando, Florida 32801 407-839-3955



TETRATECH HAI

Mark A. Rynning, RE., M.B.A. James E. Christopher, P.E. Gharles W. Drake, P.G. William D. Musser, R.E., R.H. Lawrence E. Jenkins, P.S.M.

Roderick K. Cashe, RE. Douglas P. Dufresne, RG. Jon D. Fox, RE. Daniel M. Nelson, RE.

Anchew T. Woodcock, P.E., M.B.A. John P. Toomey, P.E. Jennifer L. Woodsli, P.E. Rafael A. Terrero, P.E., DEE Jill M. Hudkins, P.E. Valerie C., Davis, P.G. Charles M. Shultz, P.E. Sean M. Parks, AICP, QEP W. Bruce Laferz, P.G. Alexis K. Stewart, P.E. Christopher W. Hardin, P.E. James R. Warner, P.E. June 20, 2005

Via UPS Overnight

Ms. Susan Pelz, P.E. (*)
Florida Department of Environmental Protection
Southwest District
3804 Coconut Palm Drive

Tampa, Florida 33619

Subject:

Cell 15 Elevation Certification

Enterprise Recycling & Disposal Facility

FDEP Permit Nos. 177982-001-SC, 177982-002-SO

45.3

Pasco County, Florida

Tt-HAI #99.0331.023 File 12.0

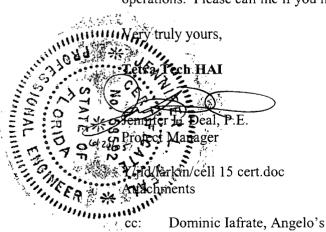
Dear Ms. Pelz:

On behalf of Angelo's Aggregate Materials, Ltd. (Angelo's), Tetra Tech HAI (Tt-HAI) is submitting this certification for the cell floor elevation in Cell 15 at the above referenced facility. The confining layer for Cell 15 was previously certified and approved by the Department.

An as-built survey provided by Foresight Surveyors, Inc. is attached for your review. The elevations indicated on the survey are substantially in compliance with the approved construction plans. Photographs from an inspection by Tt-HAI personnel are also attached. Revised financial assurance calculations to include the acreage of Cell 15 were previously submitted for review by the Department.

We trust this submittal, along with the pending financial assurance update, will satisfy the Department's certification requirements and allow for use of the cell for waste disposal operations. Please call me if you have any questions or require additional information.

JUN 2 1 2005
Department of Environment of Environme



John Morris, P.G., FDEP



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

DEP Form # 62-701,900(2)
Form Title Certification of Construction Completion
Effective Date May 19, 1994

DEP Application No. (Filled by DEP)

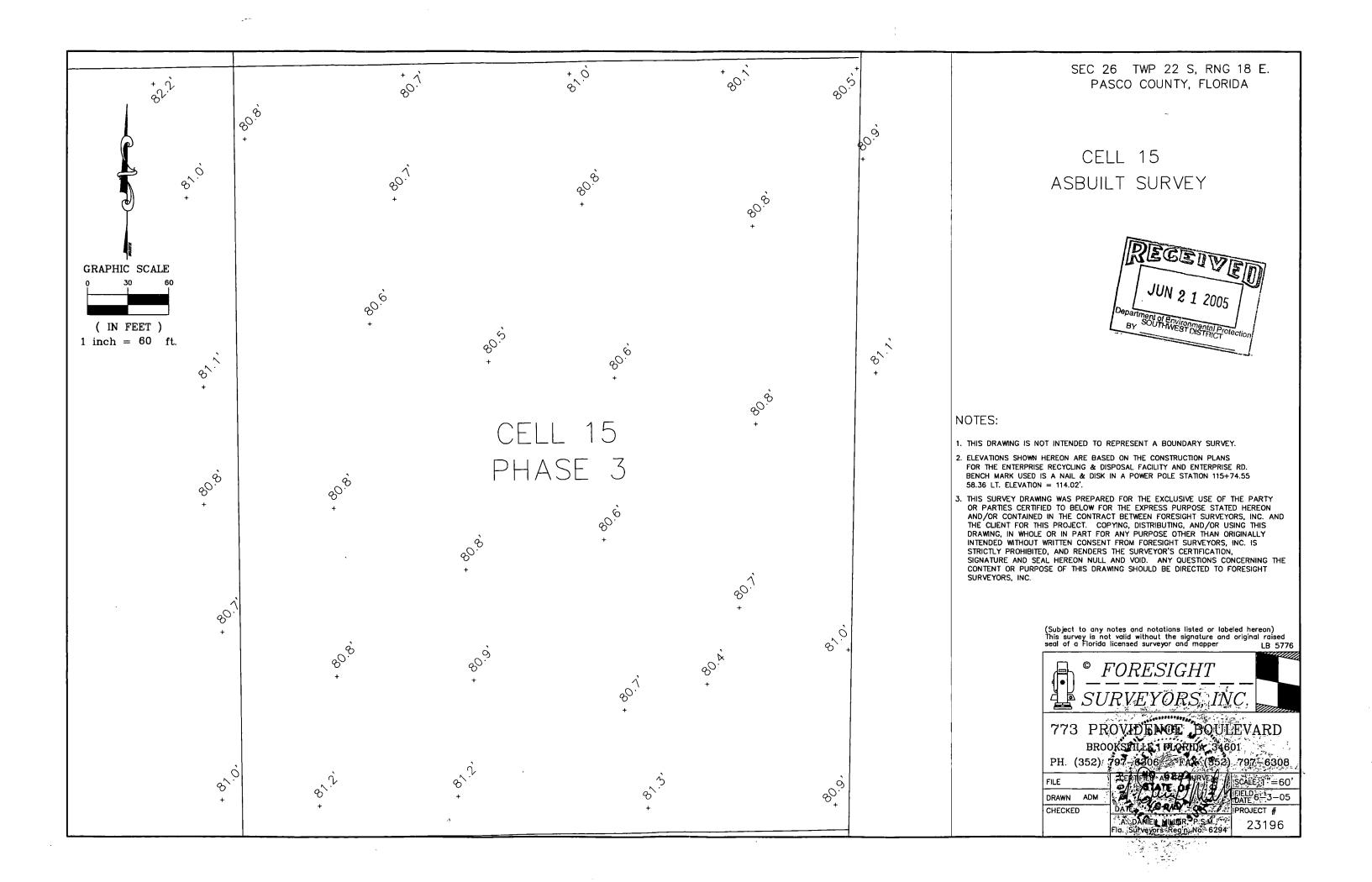
Certification of Construction Completion of a Solid Waste Management Facility

	_	DECIMA
DEP Construction Permit No: 177982-001	•	asco RECEIVE
Name of Project: Enterprise Recycling & Di	sposal Facility	- JUN 9 1
Name of Owner: Angelo's Aggregate Mate	rials, Ltd.	Department 2 1 2005
Name of Engineer: Tetra Tech HAI		By SOUTHWEST Discriming Protection
Type of Project: Cell floor elevation certification	tion for Cell 15	
See attached survey from Foresight Survey	yors as-built elevations.	
Cost: Estimate \$ 100,000	Actual \$ 150	0,000
Site Design: Quantity: 1500 cy/day	ton/day Site Acreage: 6.23 acr	res for Cell 15 Acres
Deviations from Plans and Application Ap	oproved by DEP: Construction is	in substantial compliance
with the approved construction plans.		
Address and Telephone No. of Site: 4111	I Enterprise Road, Dade City, FL	33525
352-567-7676		
Name(s) of Site Supervisor: Jeff Rogers		
Date Site inspection is requested: June 24,	2005	
This is to certify that, with the exception project has been completed in substantial a	•	•
		×
Permit No. 177982-001-SC	:Dated: October 5, 2001	
Date: June 20, 2005		The state of the s
	Signature of Profess	sional Engineer Hallman & Associates Inco
	Page 1 of 1	- 301 E. Biu 931 2 2 2 1000
	1 460 1 01 1	Orlando FE32801 C M
		E Yenny Lotan P.

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

Northeast District 7825 Baymeadows Way, Ste. B200 Jacksonville, FL 32256-7590 904-448-4300 Central District 3319 Maguire Blvd., Ste. 232 Orlando, FL 32803-3767 407-894-7555 Southwest District 3804 Coconut Palm Dr. Tampa, FL 33619 813-744-6100

South District 2295 Victoria Ave., Ste. 364 Fort Myers, FL 33901-3881 941-332-6975 Southeast District | 400 North Congress Ave. West Palm Beach, FL 33401 561-681-6600









ANGELO'S RECYCLED MATERIALS ENTERPRISE ROAD FACILITIES

SECTION 8 TOWNSHIP 25 SOUTH RANGE 22 EAST PASCO COUNTY, FLORIDA

CELL NO. 5 N 89°07'53"E 558.75 FOR REFERENCE ONLY - NOT A SECTION LINE N: 1453531.673 E: 613563.946 S 89°26'26"E 1358.91 REFERENCE POINT NORTHWEST CORNER SECTION 8 TOWNSHIP 25 RANGE 22 **1**77.00 ₊78.30 +77.37 CELL NO. 2 CELL NO. 6 7.338 ACRES +78.20 ₄77.97 ₊76.98 **⊥**77.91 ₄78.61 +78.02 ₊78.61 N: 1452951.174 E: 613012.083 558.75 N 89° 07'53"E

TOP OF SUB-GRADE SURVEY

THE ELEVATIONS SHOWN HEREON ARE BASED ON THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 AND REFERENCED TO U.S.G.S. BENCHMARK # Q-56 SAID BENCHMARK BEING LOCATED ON THE NORTH SIDE OF JORDAN ROAD AND THE WEST RIGHT-OF-WAY LINE OF THE CSX RAILROAD APPROXIMATELY TWO MILES NORTH OF DADE CITY. FLORIDA.

THE SITE BENCHMARK IS LOCATED ON THE NORTH SIDE OF ENTERPRISE ROAD APPROXIMATELY 75 FEET WEST OF THE ENTRANCE TO ANGELO'S RECYCLED MATERIALS LAND FILL. BEING A 5/8 IRON ROD AND CAP NO. LB6382 IN THE CENTER OF AN AERIAL PANEL WITH AN ELEVATION OF 148.94 FEET.

BEARINGS AND COORDINATES SHOWN HEREON BASED ON FLORIDA STATE PLANE COORDINATE SYSTEM, WEST ZONE.

Dept. of Environmental Protection

NOV 22 2006

Southwest District

I HEREBY CERTIFY THAT THE INFORMATION CONTAINED ON THIS PUBLICATION WAS OBTAINED UNDER MY DIRECTION BEGINNING ON JULY 5. 2006 AND TERMINATING ON OCTOBER 19. 2006 AND IS A TRUE REPRESENTATION OF THE GROUND ELEVATIONS AS THEY EXISTED DURING SAID TIME PERIOD.

PREPARED BY:

| BOBBY W. SIMMONS | PROFESSIONAL LAND SURVEYOR PLORIDA PLS CERT NO 2763 | FLORIDA LB CERT. NO 6382 | NOT VALID UNLESS IMPRINTED WITH RAISED SEAL OF THE PROPERTY OF THE PROPERT

GENERAL LEGEND

(D) - Deed or Description
(CM - Concrete Monument
(POB - Point of Beginning
(PCP. - Permanent Control Point
(PRM - Permanent Reference Monument
(RW - Right of Way
(RRS. - Reilroad Spike)
(N & D - Neil and Disk
(C) - Computed Data
(P) - Plat IR - Iron Rod
(P) - Plat IR - Iron Rod
(P) - Plat IR - Iron Rod
(FD. - Found (C) - Center Line
(NR) - Non Rodial
(NR) - Non Rodial
(NR) - Non Rodial
(NR) - Non Rodial
(CR) - ROSE (R) - Rocked (R) - Rocke

CELL NO. 3

ANGELO'S RECYCLED MATERIALS

SECTION 8 TOWNSHIP 25 SOUTH RANGE 22 EAST PASCO COUNTY, FLORIDA

CELL NO. 5 6 558.75 S 89°26'26"E 1358.91 N: 1453523.204 E: 613005.257 REFERENCE POINT NORTHWEST CORNER SECTION 8 TOWNSHIP 25 RANGE 22 _82.01 82.24 CELL NO. 2 CELL NO. 6 +82.79 82.52 十 ₄82.73 82.79 ₊82.74 N: 1452951.174 E: 613012.083 55**8.¤75** N 89° 07 53°E

SCALE I" = 50'

TOP OF CLAY SURVEY

THE ELEVATIONS SHOWN HEREON ARE BASED ON THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 AND REFERENCED TO U.S.G.S. BENCHMARK # 0-56. SAID BENCHMARK BEING LOCATED ON THE NORTH SIDE OF JORDAN ROAD AND THE WEST RIGHT-OF-WAY LINE OF THE CSX RAILROAD APPROXIMATELY TWO MILES NORTH OF DADE CITY. FLORIDA.

THE SITE BENCHMARK IS LOCATED ON THE NORTH SIDE OF ENTERPRISE ROAD APPROXIMATELY 75 FEET WEST OF THE ENTRANCE TO ANGELO'S RECYCLED MATERIALS LAND FILL. BEING A 5/8 IRON ROD AND CAP NO. LB6382 IN THE CENTER OF AN AERIAL PANEL WITH AN ELEVATION OF 148.94 FEET.

BEARINGS AND COORDINATES SHOWN HEREON BASED ON FLORIDA STATE PLANE COORDINATE SYSTEM. WEST ZONE.

Dept. of Environmental

NOV 22 2006

Protection

Southwest District I HEREBY CERTIFY THAT THE INFORMATION CONTAINED ON THIS PUBLICATION WAS OBTAINED UNDER MY DIRECTION ON OCTOBER 25. 2006 AND IS A TRUE REPRESENTATION OF THE GROUND ELEVATIONS EXISTING ON SAID DATE.

PREPARED BY:

BÓBBY W STMMONS WE PROFESSIONAL LAND SURVEY OR PLORIDA PLS CERT NO 265 FLORIDA LB CERT. NO 6582 NOT VALID UNLESS IMPRINTED WITH RAISED SEA

GENERAL LEGEND

(D) - Deed or Description
(CM - Concrete Monument
(POB - Point of Beginning
(PCP) - Permonent Control Point
(PRM - Permonent Reference Monument
(R/W - Right of Way
(RRS) - Railroad Spilke
(N & D - Neil end Disk
(C) - Computed Data
(PC - Point of Curvature
(PT - Point of Tongency
(P) - Plat
(R) - Redial
(R) - Nen Redial
(R) - Redial
(R) -

CELL NO. 3



TETRA TECH HAI

Mark A. Rynning, P.E., M.B.A. James E. Christopher, P.E. Charles W. Drake, P.G. William D. Musser, P.E., P.H. Lawrence E. Jenkins, P.S.M.

Roderick K. Cashe, P.E. Douglas P. Duíresne, P.G. Jon D. Fox, P.E. Daniel M. Neison, P.E.

Andrew T. Woodcock, P.E., M.B.A. John R. Toomey, R.E. Jennifer L. Woodsal, P.E. Rafael A. Terrero, P.E., DEE Jill M. Hudkins, RE. Valerie C. Davis, R.G. Charles M. Shuhz, P.E. Sean M. Parks, AICP, QEP W. Bruce Laffers, RC. Alexis K. Stewart, P.E. Christopher W. Hardin, P.E. James R. Warner, P.E. June 20, 2005

Via UPS Overnight

Ms. Susan Pelz, P.E. Florida Department of Environmental Protection Southwest District 3804 Coconut Palm Drive Tampa, Florida 33619

Subject:

Cell 15 Elevation Certification

Enterprise Recycling & Disposal Facility

FDEP Permit Nos. 177982-001-SC, 177982-002-SO

Pasco County, Florida

Tt-HAI #99.0331.023 File 12.0

Dear Ms. Pelz:

On behalf of Angelo's Aggregate Materials, Ltd. (Angelo's), Tetra Tech HAI (Tt-HAI) is submitting this certification for the cell floor elevation in Cell 15 at the above referenced facility. The confining layer for Cell 15 was previously certified and approved by the Department.

An as-built survey provided by Foresight Surveyors, Inc. is attached for your review. The elevations indicated on the survey are substantially in compliance with the approved construction plans. Photographs from an inspection by Tt-HAI personnel are also attached. Revised financial assurance calculations to include the acreage of Cell 15 were previously submitted for review by the Department.

We trust this submittal, along with the pending financial assurance update, will satisfy the Department's certification requirements and allow for use of the cell for waste disposal operations. Please call me if you have any questions or require additional information.

Very truly yours,

Tetra Tech HAI

Jennifer L. Deal, P.E. Olzolog Project Manager

37/11/1 1: /. 11 1.5

Y/jld/larkin/cell 15 cert.doc Attachments

cc:

Dominic Iafrate, Angelo's John Morris, P.G., FDEP



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

-	
	DEP Form # 62-701,900(2)
	Form Title Certification of Construction Completion
	Effective Date May 19, 1994
	<u> </u>
	DEP Application No.
	(Filled by DEP)

Certification of Construction Completion of a Solid Waste Management Facility

DEP Construction Permit No: 177982-001	I-SC	_County: Pasco	Department 2 1 20
Name of Project: Enterprise Recycling & D	isposal Facility		By SOUTHWEST TRANS
Name of Owner: Angelo's Aggregate Mate	erials, Ltd.		DISTRIC
Name of Engineer: Tetra Tech HAI			
Type of Project: Cell floor elevation certification	ation for Cell 15		
See attached survey from Foresight Surve	yors as-built elevati	ons.	
Cost: Estimate \$ 100,000		_Actual \$_150,000	
Site Design: Quantity: 1500 cy/day	ton/day Site Acre	eage: 6.23 acres for Ce	ell 15 Acres
Deviations from Plans and Application A with the approved construction plans.	pproved by DEP: <u>C</u>	Construction is in substa	antial compliance
Address and Telephone No. of Site: 4111 352-567-7676	1 Enterprise Road,	Dade City, FL 33525	
Name(s) of Site Supervisor: Jeff Rogers			
Date Site inspection is requested: June 24	, 2005		
This is to certify that, with the exception project has been completed in substantial	<u>-</u>	•	
Permit No. <u>177982-001-SC</u>	:Dated: <u>Oc</u>	ctober 5, 2001	
Date: June 20, 2005			
	Signat	ure of Professional Er	ngineer Hartman & Asso

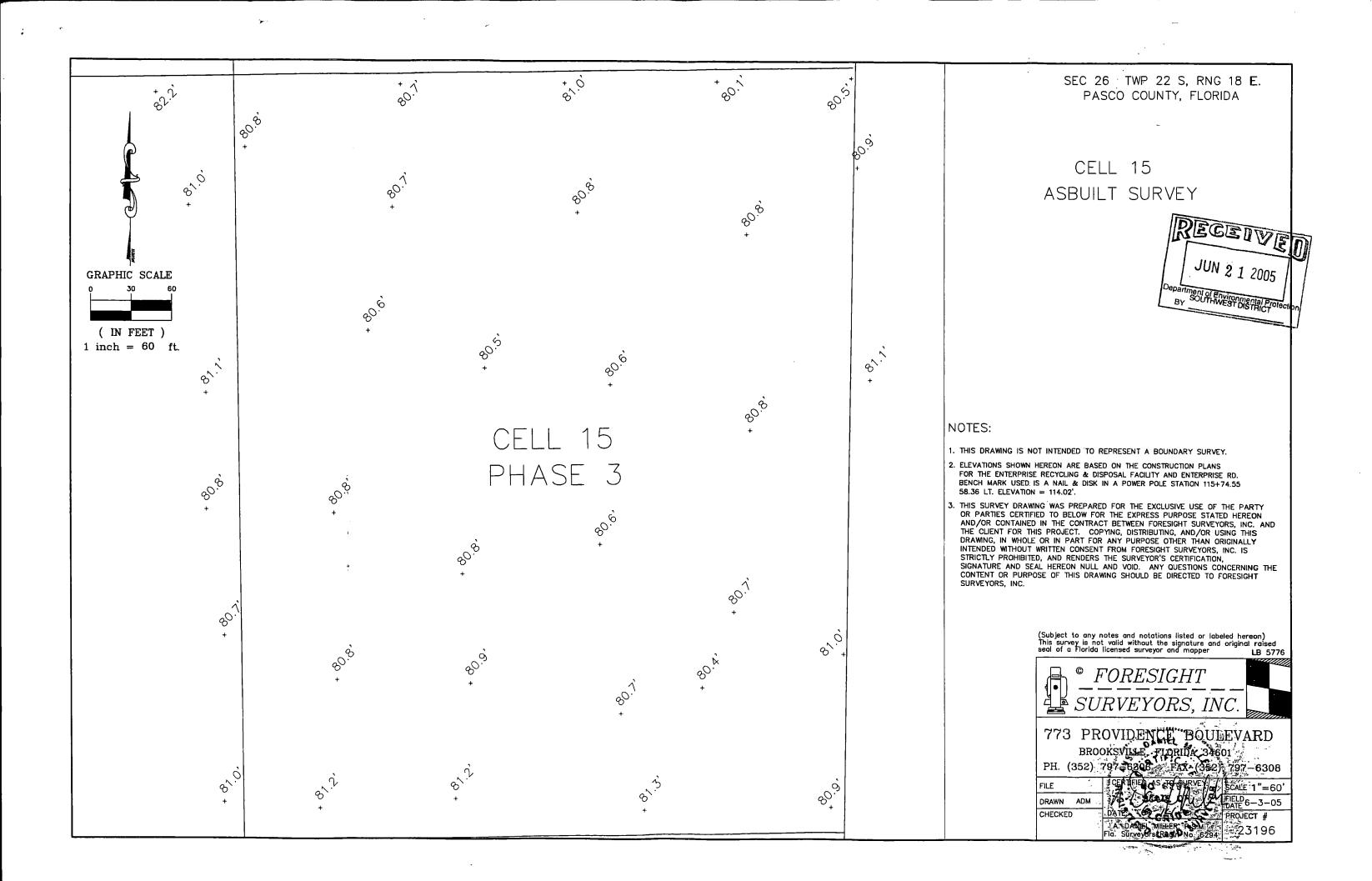
Page 1 of 1

Hartman & Associates, Inc. 201 E. Pine St., Suite 1090

Orlando, FL 32801

Engineering Business #5814 Jenniter L. Deal, P.E.

Florida Registration (120/05)





(k



N





Department of Environmental Protection

Jeb Bush Governor Southwest District 3804 Coconut Palm Drive Tampa, Florida 33619

Colleen M. Castille Secretary

January 12, 2005

Entraprise Certification

Mr. Dominic Iafrate Angelo's Aggregate Materials, Ltd. 1755 20th Ave. S.E. Largo, Fl. 33771

Enterprise Recycling & Disposal Class III Landfill

Permit Nos.: 177982-001-SC and 177982-002-SO, Pasco County

Certification of Construction Completion,

Cell 16 (temporary stormwater) and remainder of Cell 1

Dear Mr. Iafrate:

On November 1, 2004, an inspection of the above-referenced facility relative to construction completion and adherence to the permit issued by the Florida Department of Environmental Protection (FDEP) was made by Simone Core, P.E. (FDEP) and Enterprise Landfill personnel.

Certification of Construction Completion dated October 14, 2004 (received October 15, 2004), and supplemental information dated November 23, 2004, November 24, 2004, December 16, 2004 and January 5, 2005 (received November 24, 2004 November 29, 2004, December 17, 2004, January 6, 2005 respectively), has been received by the Department.

Based on the information submitted and the site inspection, the Department approves the construction (confining layer) certification for the remainder of Cell 1 and Cell 16. Please be advised that Cell 16 is authorized only for use as a temporary stormwater pond. At the time that Cell 16 is anticipated to be used for disposal operations, additional confining material shall be constructed to bring the cell bottom to design grades and a certification of construction completion shall be submitted for Department approval.

The remainder of Cell 1 shall be operated in accordance with the conditions of Operation permit 177982-002-SO and the Department's certification approval letter dated March 8, 2004 (attached). If you have any questions, you may contact me at (813) 744-6100 ext. 386.

Sincerely,

Susan J. Pelz, P.E.
Solid Waste Manager
Southwest District

sjp Attachment

Jennifer Deal, P.E., Hartman & Associates, 201 E. Pine St., Ste. 1000, Orlando, Fl. 32801, w/attachment William Kutash, Waste Program Administrator, FDEP Tampa

Fred Wick, FDEP, Tallahassee John Morris, P.G., FDEP Tampa Douglas Hyman, P.E., FDEP Tampa, ERP

"More Protection, Less Process"

Printed on recycled paper.

Remander Cell (Cell 16 (stormuta) Cent 3 Approval 1/12/05



Department of Environmental Protection

jeb Bush Governor Southwest District 3804 Coconut Palm Drive Tampa, Florida 33619

David B. Struhs Secretary

Certified Mail 7003 1680 0006 6184 7917 Return Receipt Requested

March 8, 2004

Mr. Dominic Iafrate Angelo's Aggregate Materials, Ltd. 1755 20th Ave. S.E. Largo, Fl. 33771

RE:

Enterprise Recycling & Disposal Class III Landfill

Permit Nos.: 177982-001-SC and 177982-002-SO, Pasco County

Dear Mr. Iafrate:

This letter is to acknowledge receipt of the following information prepared by Hartman and Associates, Inc. (HAI) (unless otherwise noted) concerning the construction certification of Cells 1 and 15 of the above-referenced facility:

- 1. Plan of Action for Cell Certification,... dated August 21, 2003 (received August 22, 2003);
- 2. <u>Cell 1 Certification,...</u> dated October 8, 2003 (received October 9, 2003);
- 3. <u>Cell 1 Certification and Landfill Site Certification Addendum...</u> dated November 13, 2003 (received November 14, 2003);
- 4. Information transmitted via facsimile dated January 9, 2004 regarding permeability and % fines correlation;
- 5. <u>Cell 1 and Landfill Site Certification Addendum 2 and Responses to Department's Certification Comments...</u> dated January 14, 2004 (received January 15, 2004);
- 6. Notification of Shallow Subsidence,... dated January 19, 2004 (received January 20, 2004);
- 7. Shallow Subsidence Clarification,... dated February 11, 2004 (received February 13, 2004);
- 8. Certification of Operations Cells 1 and 15,... dated February 18, 2004 (received February 23, 2004), prepared by HSA Golden; and
- 9. Information transmitted via facsimile dated February 25, 2004 regarding proposed grouting of subsidence in Cell 16.

"More Protection, Less Process"

Other information was also reviewed in part or in its entirety during the evaluation of the Certification of Construction Completion for Cells 1 and 15. This information prepared by Hartman & Associates unless otherwise noted included, but is not limited to:

- 10. Groundwater Monitoring Results, dated December 18, 2003 (received December 19, 2003);
- 11. Weekly Water Levels, dated December 30, 2003 (received December 31, 2003);
- 12. Construction progress reports; and
- 13. <u>Enterprise Recycling and Disposal Facility Class III Landfill Permit Application,...</u> prepared by Hartman and Associates, dated November 2000 (received November 20, 2000).

Additionally, several meetings were held with, and site visits were made by, the Department, permittee and permittee's consultants. The conditions observed at the site and information needed for satisfactory completion of the Certification of the constructed areas were discussed at these site visits and meetings.

During permitting (2001), the applicant (Sid Larkin & Sons, Inc.) provided information that demonstrated that the construction and operation of the facility without a liner and leachate collection and removal system would not result in significant threat to the environment. The Department's acceptance of this demonstration was based in large part on the anticipated subsurface conditions at the site. The Hydrogeological Report provided as part of the permitting documentation included boring logs that generally showed "a consistent confining layer above the limestone" [ref. #13, above, page 3-14]. Additionally, the design required a continuous 3-feet layer of 1 x 10⁻⁶ cm/sec permeability material to be below or at the cell design bottom elevation to further mitigate any impacts from leachate into groundwater. If the test data did not indicate that this layer was present, the area would be "reworked or reconstructed so that it [would] meet these requirements" [ref. #13, Operations Plan, page 24]. The boring logs provided during permitting included inconsistent descriptions between some Universal Engineering Sciences logs in Section 4 and Hartman & Associates, Inc. logs in Section 5, but generally showed limestone below the proposed cell bottom elevations in Cell 1.

However, during construction of Cell 1 limestone was encountered at higher elevations than anticipated based on the hydrogeological and geotechnical investigations conducted at the time of permitting. In areas with limerock or sandy soils at the design bottom elevation of Cell 1, the unsuitable materials (limerock and sandy soils) were overexcavated and clayey soils which met the permeability requirements were placed and compacted in the excavated areas to meet the requirements of the permit and design. To confirm the presence of a 3-feet continuous clayey layer of the specified permeability (1 x 10⁻⁶ cm/sec), shallow and deep borings were completed, and a correlation between % fines in the clayey material and permeability test results was developed. In addition to clay and sandy clay materials meeting the permeability requirements, the correlation concluded that clayey sand materials with a minimum % fines of 30% would also be reasonably expected to meet the permeability requirements of the permit. The Department concurs with this conclusion based on the data provided.

The cross-sections show "limestone fragments" in many locations throughout the cell bottom and underlying strata. Although this does not appear to correlate with the original design intent or permit supporting documentation, the information provided with the Certification indicates that these "fragments" do not appear to be connected to the Floridan aquifer.

Subsequent to the completion of construction of Cells 1 and 15, the Department was notified by the permittee's consultant of a "Shallow Subsidence" that occurred in Cell 16, approximately 30 feet north of the temporary berm between Cells 15 and 16. Since Cell 16 was intended for temporary stormwater use only, and due to the occurrence of subsurface anomalies (e.g., sandy areas, irregular limestone surface, deep depression which is possibly a relic sinkhole), the permittee agreed to isolate the Cell 15 temporary stormwater management area from Cell 16 to allow the approval of Cells 1 and 15 while continuing to investigate the conditions in Cell 16. This isolation of Cell 16 was accomplished by constructing a temporary berm between Cells 15 and 16. As reported by HAI, in the area of the subsidence "a layer of loose or raveling material" was discovered in two locations. Additional borings were completed to confirm the extent of these areas, and a proposal for grouting the affected areas was submitted to the Department [ref. #7, 8 and 9]. It is the Department's understanding that this grouting activity is taking place the week of March 1, 2004.

Conclusion:

Based on the information provided for the Certification and the Department's review of relevant documents continued in the Department's files, the Department does not object to the operation of Cell 1 for waste disposal and Cell 15 for temporary stormwater management in accordance with the conditions of Operation permit #177982-002-SO and the following conditions:

- 1. This authorization does not include Cell 16.
- 2. The limerock "fragments" observed at the Cell 1 bottom elevation during the Department's January 21, 2004 inspection shall be removed and replaced with a minimum 3 feet of clayey material at the specified permeability of 1 x 10⁻⁶ cm/sec. Photographic documentation shall be submitted to the Department upon completion and prior to operation.
- 3. Repair of the subsidence in Cell 16 shall be completed prior to acceptance of waste in Cell 1. A report documenting the repair activities shall be submitted to the Department upon completion. The report shall document that the subsidence was repaired in accordance with the procedures provided [ref. #7, 8 and 9] and that the stability of the affected area has been restored. Photographic documentation, borings logs, or other suitable documentation shall be provided. The report shall be signed and sealed by a registered professional engineer or geologist as appropriate.
- 4. As required by modified stormwater management permit #51-0172489-003, the permittee shall notify the Department of any subsequent sinkhole development in the surface water management system within 48 hours after discovery and must submit a detailed sinkhole evaluation and repair plan for approval by the Department within 30 days of discovery.
- 5. In the event of subsidence or other subsurface instability in Cells 1 or 15, waste disposal operations (Cell 1) or stormwater management (Cell 15) shall cease in the affected area and the Department shall be notified in accordance with Specific Conditions #5 and 40 of Operation Permit #177982-002-SO. Operations or stormwater management shall not resume until the condition has been adequately evaluated and remediated if necessary.

Although the conditions observed do not necessarily preclude the construction and operation of future cells, it is the Southwest District's position that the subsurface conditions observed during the construction and certification of Cells 1, 15 and 16 are a substantial deviation from the original permitted design. As such, the construction of subsequent cells and the completion of Cell 16 requires a modification of construction permit #177982-001-SC to update and revise the design as appropriate based on currently available information.

If you have any questions, you may contact me at (813) 744-6100 ext. 386.

Sincerely,

Susan J. Pelz, P.E. Solid Waste Manager Southwest District

sjp cc:

Jennifer Deal, P.E., Hartman & Associates, 201 E. Pine St., Ste. 1000, Orlando, Fl. 32801 William Kutash, Waste Program Administrator, FDEP Tampa Richard Tedder, P.E., Solid Waste Program Administrator, FDEP Tallahassee Chris McGuire, OGC Fred Wick, FDEP, Tallahassee, w/attachment Kim Ford, P.E., FDEP Tampa John Morris, P.G., FDEP Tampa David Smith, P.E., FDEP Tampa, ERP

TETRA TECH, INC.

OFFICERS:

Mark A. Rynning, P.E., M.B.A. Harold E. Schmidt, Jr., P.E., DEE James E. Christopher, P.E. Charles W. Drake, P.G. William D. Musser, P.E., P.H. Lawrence E. Jenkins, P.S.M.

SENIOR ASSOCIATES:

Marco H. Rocca, C.M.C. Roderick K. Cashe, P.E. Douglas P. Dufresne, P.G. Jon D. Fox, P.E. Daniel M. Nelson, P.E.

HARTMAN & ASSOCIATES, INC.

engineers, hydrogeologists, surveyors & management consultants

January 5, 2005

ASSOCIATES:

Les H. Porterfield, P.E.
Andrew T. Woodcock, P.E., M.B.A.
John P. Toomey, P.E.
Jennifer L. Woodall, P.E.
Rafael A. Terrero, P.E., DEE
Jill M. Hudkins, P.E.
Valerie C. Davis, P.G.
Charles M. Shultz, P.E.
Sean M. Parks, AICP, QEP
W. Bruce Lafrenz, P.G.
Alexis K. Stewart, P.E.
Christopher W. Hardin, P.E.

ocan M. Parks, AICR QEP
W. Bruce Lafrenz, P.G.
Alexis K. Stewart, P.E.
Christopher W. Hardin, P.E.
HAI #99.0331.017

File 12.0

Via UPS Overnight

Ms. Simone Core, P.E.
Florida Department of Environmental Protection
Southwest District
3804 Coconut Palm Drive
Tampa, Florida 33619

Subject:

Response to Cell 16 and Cell 1 Certification Comments

Enterprise Recycling & Disposal Facility

Angelo's Aggregate Materials, Ltd.

FDEP Permit Nos. 177982-001-SC, 177982-002-SO

Pasco County, Florida

Dear Ms. Core:

On behalf of Angelo's Aggregate Materials, Ltd., Hartman & Associates, Inc. (HAI) is providing responses to your request for additional information regarding the certification documentation for Cells 1 and 16 at the Enterprise Recycling and Disposal Facility in Dade City, Florida. Your comments are stated first with our responses following.

1. Please provide revised site inspection reports for July 7 and 8, 2004 indicating that the required IPD and permeability tests were conducted for Sections 3 and 4. As of the date of this letter, UES has not submitted revised site inspection reports.

Response: Please see the attached revised reports.

2. Please note that Appendix E does not indicate that permeability tests were conducted on July 26, 2004. Please clarify further.

Response: Please see the attached letter from HAI.

3. Cell 15 was approved only for stormwater management. Therefore, in order for Cell 15 to be approved for waste disposal, IPD and permeability tests must be conducted on the additional confining material required to raise the cell floor to an elevation of 80 feet NGVD. The IPD and permeability tests are to be conducted in accordance with the minor modification to the construction permit currently in-house.

201 EAST PINE STREET • SUITE 1000 • ORLANDO, FL 32801-2723 TELEPHONE (407) 839-3955 • FAX (407) 839-3790 • www.consulthai.com



See Band Report

Ms. Simone Core, P.E. January 5, 2005 Page 2

Response: Additional discussion will be necessary between HAI and the Department to clarify the intent of the confining layer certification previously submitted for Cell 15. However, approval of the certification of Cells 1 and 16 should not be dependent on the resolution of this comment since the comment addresses Cell 15.

We trust this response will satisfy the Department's requirements. Please call me if you have any questions.

Very truly yours,

Hartman & Associates, Inc.

Jennifer L. Deal, P.E.

Project Manager

N/hydro/jld/larkin/cell 1 and 16 response.doc

Attachments

_ _ .

Dominic Iafrate, Angelo's

Jeff Rogers, Angelo's

Susan Pelz, P.E., FDEP – Southwest District

ີroject No.: eport No.: 80540-001-02 SI #2

Date: Revised: July 12, 2004

12/07/04

Consultants in: Geotechnical Engineering • Environmental Sciences Construction Materials Testing • Threshold Inspection • Private Provider Inspection

9802 Palm River Road • Tampa, FI 33619-4438 • (813) 740-8506 • Fax (813) 740-8706

WEEKLY REPORT ON SITE INSPECTIONS

Client:

Angelo's Aggregate Materials Attention: Dominic lafrate

26400 Sherwood Street Warren, MI 48091

Project:

Dade City Landfill, 5 acre Clay Liner

Scope of

Field Work:

Monitor Placement and Compaction of Clay Liner; to Include IPD's and Permeability Sample Pickup

Inspected By: Vince Simmons

July 6, 2004

Monitored track hoe loading end jumps from section #3 of cell and hauling to stockpile area at east end of cell areas outside of construction zone. At end of excavation in section #3 D-7 dozer compacted clay liner at 12" lifts and grading while sheep's foot roller compacted graded clay liner. Three density test performed in section #2 at locations on density test report form. Also 3 permeability samples were taken at one sample per lift at location noted on density report form and sent to Orlando lab for testing. Surveyors not on site today. Area cleared in section #3 measured at 315' long and 73' wide. No test were ready for section #3 today.

July 7, 2004

Monitored track hoe loading two end dumps from section #4 cell and hauling excavates fill to stockpile area at east end of cell areas outside of construction zone. Clay liner fill hauled back in section #4 and graded with day dozer and compacted with sheep's foot roller at 12" lifts. Dimension of section #4 is 315' long and 68' wide. Goodwin Construction stop working at 12:30 p.m. due to rain showers and lightening which lasted about 45 minutes. 3 IPD's and perm samples taken for section #3. At present time about 50% of first lift completed and excavated...

July 8, 2004

Arrived on site Goodwin Brother's Construction working on excavating materials out of section #5 and loading into end dumps. Sheep's front roller and dozer are working in section #4 on first lift. End dumps unloading excavated fill at stockpile areas at east end of construction zone. Took two IPD's and two permeability tests in section #4. Excavation at 70%.

July 9, 2004

Arrived on site and monitored excavation of material in section #6. Materials loaded in two end dumps and transported off site to stockpile area at east end of construction zone. Goodwin Brother's will continue excavating in area before backfilling jeff with Angelo's didn't require me to be on site for excavation remaining area in section #6. Good win Brothers Construction will begin backfilling on 7/12/04. Job excavation at 95%. Left site at 12:00 p.m.

Reviewed By,

Universal Enginee-ing Sciences, Inc. Certificate of Authorization No. 00000549

Mark K. Hardy, P.E.

Tampa Branch Manager

Professional Engineer No. 57233

Date: /2/21/09

Client (1) CC:

TETRA TECH, INC.

OFFICERS:

Mark A. Rynning, P.E., M.B.A. Harold E. Schmidt, Jr., P.E., DEE James E. Christopher, P.E. Charles W. Drake, P.G. William D. Musser, P.E., P.H. Lawrence E. Jenkins, P.S.M.

SENIOR ASSOCIATES:

Marco H. Rocca, C.M.C. Roderick K. Cashe, P.E. Douglas P. Dufresne, P.G. Jon D. Fox, P.E. Daniel M. Nelson, P.E.

HARTMAN & ASSOCIATES, INC.

engineers, hydrogeologists, surveyors & management consultants

ASSOCIATES:

Les H. Porterfield, P.E.
Andrew T. Woodcock, P.E., M.B.A.
John P. Toomey, P.E.
Jennifer L. Woodall, P.E.
Rafael A. Terrero, P.E. DEE
Jill M. Hudkins, P.E.
Valerie C. Davis, P.G.
Charles M. Shultz, P.E.
Sean M. Parks, AICP, QEP
W. Bruce Lafrenz, P.G.
Alexis K. Stewart, P.E.
Christopher W. Hardin, P.E.
James R. Warner, P.E.

January 3, 2005

HAI #99.0331.013 File 12.0

Via Facsimile and U.S. Mail

Ms. Simone Core, P.E.
Florida Department of Environmental Protection
Southwest District
3804 Coconut Palm Drive
Tampa, Florida 33619

Subject:

Cell 16 Certification Clarification

Enterprise Recycling & Disposal Facility

Angelo's Aggregate Materials, Ltd.

FDEP Permit Nos. 177982-001-SC, 177982-002-SO

Pasco County, Florida

Dear Ms. Core:

In accordance with our conversation on December 21, 2004, Hartman & Associates, Inc. (HAI) is submitting this letter as a clarification to the confining layer certification for Cell 16 at the above referenced facility. Specifically, this letter is to clarify the discrepancy regarding the permeability test samples collected by Universal Engineering Sciences (UES) on July 26, 2004.

HAI has confirmed with Mr. Mark Hardy, P.E. of UES that the referenced samples were collected from Cell 16. However, since UES had collected approximately double the number of required permeability samples for Cell 16, and passing in-place density tests were conducted in these referenced test locations, UES and Angelo's decided not to perform the last three laboratory permeability tests.

We trust this clarification will satisfy the Department. Please call me if you have any questions or require additional information.

Very truly yours,

Hartman & Associates, Inc.

Jennifer L. Deal, P.E.

Project Manager

N/hydro/jld/larkin/core.doc

cc: Dominic Iafrate, Angelo's

Jeff Rogers, Angelo's

Susan Pelz, P.E., FDEP, Southwest District



HARTMAN & ASSOCIATES, INC.

engineers, hydrogeologists, surveyors & management consultants

201 EAST PINE STREET - SUITE 1000 - ORLANDO, FL 32801 TELEPHONE (407) 839-3955 - FAX (407) 481-8447

		V
M	A	\mathbf{A}

Job Number: 99.0331.013

То:	Simone Core
	FDEP Southwest District Office
Phone:	(813) 744-6100, ext. 382
Fax:	(813) 744-6125
cc:	
Re:	Enterprise Landfill

Date:	01/04/05	
No. of pages incl. cover page:		3

From:	Jennifer L. Deal, P.E.
	Hartman & Associates, Inc.
Phone:	(407) 839-3955 ext. 153
Fax:	(407) 839-2066

REMARKS: Urgent For your review As Requested Please comment
Simone,
Following are the clarification letter regarding Cell 1/16 certification, and a revised report from UES. Originals will be sent to you. Please call me if you have any questions regarding these documents. Thank you.
Jennifer

The information contained in this facsimile transmission may be legally privileged and is intended for the use of the individual(s) or entity(ies) named above. If you are not the intended recipient, you are hereby notified that any use dissemination, distribution or copying of this facsimile or its information is strictly prohibited. If you have received this facsimile in error, please immediately notify the sender by telephone or facsimile using the above referenced number to arrange for the return of the original documents.



ject No.: 80540-001-02

keport No.: SI#2

o.: SI#2

July 12, 2004 12/07/04

Date: Revised:

Consultants in: Geotechnical Engineering • Environmental Sciences
Construction Materials Testing • Threshold Inspection • Private Provider Inspection

9802 Palm River Road • Tampa, FI 33619-4438 • (813) 740-8506 • Fax (813) 740-8706

WEEKLY REPORT ON SITE INSPECTIONS

Client:

Angelo's Aggregate Materials Attention: Dominic lafrate 26400 Sherwood Street Warren, MI 48091

Project:

Dade City Landfill, 5 acre Clay Liner

Scope of

Fleld Work:

Monitor Placement and Compaction of Clay Liner; to Include IPD's and Permeability Sample Pickup

Inspected By: Vince Simmons

July 6, 2004

Monitored track hoe loading end jumps from section #3 of cell and hauling to stockpile area at east end of cell areas outside of construction zone. At end of excavation in section #3 D-7 dozer compacted clay liner at 12" lifts and grading while sheep's foot roller compacted graded clay liner. Three density test performed in section #2 at locations on density test report form. Also 3 permeability samples were taken at one sample per lift at location noted on density report form and sent to Orlando lab for testing. Surveyors not on site today. Area cleared in section #3 measured at 315' long and 73' wide. No test were ready for section #3 today.

July 7, 2004

Monitored track hoe loading two end dumps from section #4 cell and hauling excavates fill to stockpile area at east end of cell areas outside of construction zone. Clay liner fill hauled back in section #4 and graded with day dozer and compacted with sheep's foot roller at 12" lifts. Dimension of section #4 is 315' long and 68' wide. Goodwin Construction stop working at 12:30 p.m. due to rain showers and lightening which lasted about 45 minutes. 3 IPD's and perm samples taken for section #3. At present time about 50% of first lift completed and excavated..

July 8, 2004

Arrived on site Goodwin Brother's Construction working on excavating materials out of section #5 and loading into end dumps. Sheep's front roller and dozer are working in section #4 on first lift. End dumps unloading excavated fill at stockpile areas at east end of construction zone. Took two IPD's and two permeability tests in section #4. Excavation at 70%.

July 9, 2004

Arrived on site and monitored excavation of material in section #6. Materials loaded in two end dumps and transported off site to stockpile area at east end of construction zone. Goodwin Brother's will continue excavating in area before backfilling jeff with Angelo's didn't require me to be on site for excavation remaining area in section #6. Good win Brothers Construction will begin backfilling on 7/12/04. Job excavation at 95%. Left site at 12:00 p.m.

Mark K. Hardy, P.E.

Reviewed By.

Tampa Branch Manager

Professional Engineer No. 5723

Universal Engineering Sciences, Inc. Certificate of Authorization No. 00000549

cc: Client (1)

TETRA TECH, INC.

HARTMAN & ASSOCIATES, INC.

engineers, hydrogeologists, surveyors & management consultants

ASSOCIATES:

Les H. Ponterfield, P.E.
John F. Toomey, P.E.
John F. Toomey, P.E.
Jennifer L. Woodall, P.E.
Rahel A. Terrero, P.E., DEE
Jill M. Hudkins, P.E.
Valerie C. Davis, P.G.
Charles M. Shultz, P.E.
Sean M. Purks, AICP, O.FP
W. Bruce Lafreaz, P.G.
Aléxis K. Stewart, P.E.
Christopher W. Hardin, P.E.

SENIOR ASSOCIATES:

Charles W. Drake, P.G. William D. Musser, P.E., P.H. Lawrence E. Jenkins, P.S.M.

Mark A. Rynning, P.E., M.B.A. Harold E. Schmidt, Jr., P.E., DEE

James E. Christopher, RE,

OFFICERS

Marco H. Rocca, C.M.C. Roderick K. Cashe, P.E. Donglas P. Dufresne, P.G. Jon D. Fox, P.E. Daniel M. Nelson, P.E. January 3, 2005

HAI #99.0331.013

7:

File 12.0

Via Facsimile and U.S. Mail

Ms. Simone Core, P.E.
Florida Department of Environmental Protection
Southwest District
3804 Coconut Palm Drive
Tampa, Florida 33619

Subject:

Cell 16 Certification Clarification Enterprise Recycling & Disposal Facility Angelo's Aggregate Materials, Ltd.

FDEP Permit Nos. 177982-001-SC, 177982-002-SO

Pasco County, Florida

Dear Ms. Core:

In accordance with our conversation on December 21, 2004, Hartman & Associates, Inc. (HAI) is submitting this letter as a clarification to the confining layer certification for Cell 16 at the above referenced facility. Specifically, this letter is to clarify the discrepancy regarding the permeability test samples collected by Universal Engineering Sciences (UES) on July 26, 2004.

HAI has confirmed with Mr. Mark Hardy, P.E. of UES that the referenced samples were collected from Cell 16. However, since UES had collected approximately double the number of required permeability samples for Cell 16, and passing in-place density tests were conducted in these referenced test locations, UES and Angelo's decided not to perform the last three laboratory permeability tests.

We trust this clarification will satisfy the Department. Please call me if you have any questions or require additional information.

Very truly yours,

Hartman & Associates, Inc.

Jennifer L. Deal, P.E.

Project Manager

N/hydro/jld/larkin/core.doc

cc: Dominic Iafrate, Angelo's

Jeff Rogers, Angelo's

Susan Pelz, P.E., FDEP, Southwest District



Department of Environmental Protection

Jeb Bush Governor Southwest District 3804 Coconut Palm Drive Tampa, Florida 33619 January 4, 2005

Colleen M. Castille Secretary

Mr. Dominic Iafrate Angelo's Aggregate Materials, Ltd. 1755 20th Avenue SE Largo, Florida 33771

Re:

Enterprise Recycling & Disposal Facility Certification for Cell 16 and portion of Cell 1 Permit No. 177982-001-SC Pasco County

Dear Mr. Iafrate:

This is to acknowledge receipt of the additional information prepared by Hartman & Associates, Inc., dated December 16, 2004, (received December 17, 2004), to certify Cell 16 and a portion of Cell 1 of a Class III landfill. Please be advised that based on the information submitted, the certification is <u>not approved</u>.

Your submittal is <u>incomplete</u>. Please provide the information listed below promptly. Details are as follow:

- 1. Please provide revised site inspection reports for July 7 and 8, 2004 indicating that the required IPD and permeability tests were conducted for Sections 3 and 4. As of the date of this letter, UES has not submitted revised site inspection reports.
- 2. Please note that Appendix E does not indicate that permeability tests were conducted on July 26, 2004. Please clarify further.
- 3. Cell 15 was approved only for stormwater management. Therefore, in order for Cell 15 to be approved for waste disposal, IPD and permeability tests must be conducted on the additional confining material required to raise the cell floor to an elevation of 80 feet NGVD. The IPD and permeability tests are to be conducted in accordance with the minor modification to the construction permit currently in-house.

Mr. Dominic Iafrate Angelo's Aggregate Materials, Ltd. Certification of Construction Completion - 0177982-001-SC Page 2 of 2

You are requested to submit four (4) copies of your response to this letter as one complete package with an original and three copies of all correspondence (with one copy sent to Ms. Susan Pelz). Please contact me at (813) 744-6100, Extension 382, should you have any question.

Sincerely,

Simone Core, P.E.

Solid Waste Section Southwest District

cc: Jennifer L. Deal, P.E., [Hartman & Associates, Inc., 201 East Pine Street, Suite 1000, Orlando, FL 32801-2723]

Mark Hardy, P.E., [Universal Engineering Sciences]

Susan Pelz, P.E., [FDEP - SWD]

Douglas Hyman, P.E., [FDEP-IW/Stormwater]

Fred Wick, [FDEP - Tallahassee]

Pelz, Susan

From:

Pelz, Susan

Sent:

Tuesday, January 04, 2005 4:54 PM

To:

Jennifer Deal (E-mail)

Cc:

Core, Simone; Wick, Fred; Morgan, Steve; Petro, Stephanie; Cleary, James

Subject:

Enterprise Certifications

Jennifer,

Please find attached letters with comments concerning the Cell 2 & Cell 1/Cell 16 certifications. These letters were mailed today. Please note also that we have received your letter dated January 3, 2005 that indicated that Angelos would begin operation in Cell 2 as of January 4, 2005.

Rule 62-701.630(2)(b), F.A.C., requires that the financial assurance mechanism be fully funded 60 days prior to the receipt of waste. It does not appear that the Department has received proof of financial assurance for Cell 2. Therefore, operation in Cell 2 is **not authorized** at this time. Please be advised that in the event that the permittee elects to operate in Cell 2 prior to the Department's receipt of acceptable proof of funding for the financial assurance, the Department may initiate enforcement action to ensure complaince with the facility's permit and Department rules.

Susan J. Pelz, P.E. Solid Waste Program Manager Southwest District 813-744-6100 x 386 susan.pelz@dep.state.fl.us





0177982-001 0177982-001 C cell 2 RAI En/C RAI3 Enterpri

Tracking:

Recipient

Read

Jennifer Deal (E-mail)

Core, Simone

Read: 1/5/2005 9:32 AM

Wick, Fred

Morgan, Steve

Read: 1/5/2005 9:51 AM

Petro, Stephanie

Read: 1/5/2005 7:05 AM

Cleary, James

Pelz, Susan

From:

Jennifer L. Deal, P.E. [Jennifer.deal@tetratech.com]

Sent:

Tuesday, January 04, 2005 5:12 PM

To:

Pelz, Susan

Subject:

Read: Enterprise Certifications



ATT840394.txt

Your message

To: Jennifer Deal (E-mail)

Cc: Core, Simone; Wick, Fred; Morgan, Steve; Petro, Stephanie;

Cleary, James

Subject: Enterprise Certifications

Sent: 1/4/05 4:53 PM

was read on 1/4/05 5:10 PM.

TETRA TECH, INC.

HARTMAN & ASSOCIATES, INC.

engineers, hydrogeologists, surveyors & management consultants

December 16, 2004

ASSOCIATES:

Les H. Porterfield, P.E. Andrew T. Woodcock, P.E., M.B.A.

John P. Toomey, P.E.

Jennifer L. Woodall, P.E. Rafael A. Terrero, P.E., DEE Jill M. Hudkins, P.E. Valerie C. Davis, P.G. Charles M. Shultz, P.E. Sean M. Parks, AICP, QEP W. Bruce Lafrenz, P.G. Alexis K. Stewart, P.E. Christopher W. Hardin, P.E.

James R. Warner, P.E.

HAI #99.0331.017

File 12.0

Via UPS Overnight

Ms. Simone Core, P.E. Florida Department of Environmental Protection Southwest District 3804 Coconut Palm Drive Tampa, Florida 33619

Subject:

OFFICERS:

Mark A. Rynning, P.E., M.B.A. Harold E. Schmidt, Jr., P.E., DEE James E. Christopher, P.E.

Charles W Drake, P.G.

Lawrence E. Jenkins, P.S.M. SENIOR ASSOCIATES:

Marco H. Rocca, C.M.C. Roderick K. Cashe, P.E. Douglas P. Dufresne, P.G. Jon D. Fox, P.E.

Daniel M. Nelson, P.E.

Enterprise Recycling & Disposal Facility Certification for Cell 16 and Portion of Cell 1 Permit No. 177982-001-SC

Pasco County

Dear Ms. Core:

On behalf of Angelo's Aggregate Materials, Ltd., Hartman & Associates, Inc. (HAI) is submitting responses to your comments regarding the above referenced certification submittal. Your comments are stated first with our responses following.

The pictures in Appendix F were not labeled. Please label these pictures and provide a 1. plan view that shows the general location and re-submit to the Department. November 29, 2004, the Department received correspondence from Universal Engineering Sciences indicating that this item is still incomplete.

Photos from UES have been renumbered (CD enclosed) and locations indicated Response: on the attached Photograph Location Map. The photos from Appendix F have been labeled and, the general locations have been hand entered on the attached Figure 1A.

Please provide revised site inspection reports for July 7 and 8, 2004 indicating that the 2.. required IPD and permeability tests were conducted for Sections 3 and 4.

HAI has confirmed that three IPD and permeability tests were conducted in Response: Section 3 on July 7, 2004 and that two IPD and permeability tests were conducted in Section 4

See Bound Report



Department of Environmental Protection

Jeb Bush Governor Southwest District 3804 Coconut Palm Drive Tampa, Florida 33619 December 2, 2004

Colleen M. Castille Secretary

Mr. Dominic Iafrate Angelo's Aggregrate Materials, Ltd. 1755 20th Avenue SE Largo, Florida 33771

Re:

Enterprise Recycling & Disposal Facility Certification for Cell 16 and portion of Cell 1 Permit No. 177982-001-SC Pasco County

Dear Mr. Iafrate:

This is to acknowledge receipt of the additional information prepared by Hartman & Associates, Inc., dated November 23, 2004, (received November 24, 2004) and Universal Engineering Sciences dated November 24, 2004, (received November 29, 2004), to certify Cell 16 and a portion of Cell 1 of a Class III landfill. Please be advised that based on the information submitted, the certification is <u>not approved</u>.

Your submittal is <u>incomplete</u>. Please provide the information listed below promptly. Details are as follow:



The pictures in Appendix F were not labeled. Please label these pictures and provide a plan view that shows the general location and re-submit to the Department. On November 29, 2004, the Department received correspondence from Universal Engineering Sciences indicating that this item is still incomplete.



Please provide revised site inspection reports for July 7 and 8, 2004 indicating that the required IPD and permeability tests were conducted for Sections 3 and 4.



Appendix E does not show that permeability tests were conducted on June 30, 2004. Please clarify the June 30, 2004 inspection report.



July 26, 2004 of the site inspection report indicates that "test will be done at a later date". There was no site inspection report indicating that additional tests were done for Cell 16 after July 26, 2004. On November 29, 2004, the Department received correspondence from Universal Engineering Sciences stating that the tests for Cell 16 were completed.

Mr. Dominic Iafrate Angelo's Aggregrate Materials, Ltd. Certification of Construction Completion - 0177982-001–SC Page 2 of 2

Please note that Appendix E does not indicate that IPD and permeability tests were conducted on July 26, 2004. Please clarify further.

5. Please note that certification of Cell 15 for waste disposal will require that IPD and permeability tests be conducted on the additional confining material required to raise the cell floor to an elevation of 80 feet NGVD. The IPD and permeability tests are to be conducted in accordance with the minor modification to the construction permit currently in-house.

You are requested to submit four (4) copies of your response to this letter as one complete package with an original and three copies of all correspondence (with one copy sent to Ms. Susan Pelz). Please contact me at (813) 744-6100, Extension 382, should you have any question.

Sincerely,

Simone Core, P.E. Solid Waste Section Southwest District

cc: Jennifer L. Deal, P.E., [Hartman & Associates, Inc., 201 East Pine Street, Suite 1000, Orlando, FL 32801-2723]

Mark Hardy, P.E., [Universal Engineering Sciences]

Susan Pelz, P.E., [FDEP - SWD]
Fred Wick, [FDEP - Tallahassee]

TETRA TECH, INC.

HARTMAN & ASSOCIATES, INC.

engineers, hydrogeologists, surveyors & management consultants

November 23, 2004

ASSOCIATES:

Les H. Porterfield, P.E.
Andrew T. Woodcock, P.E., M.B.A.
John P. Toomey, P.E.
Jennifer L. Woodall, P.E.
Rafael A. Terrero, P.E., DEE
Jill M. Hudkins, P.E.
Valerie C. Davis, P.G.
Charles M. Shultz, P.E.
Sean M. Parks, AICR, QEP
W. Bruce Lafrenz, P.G.
Alexis K. Stewart, P.E.
Christopher W. Hardin, P.E.
James R. Warner, P.E.

HAI #99.0331.017 File 12.0

Lawrence E. Jenkins, P.S.M SENIOR ASSOCIATES:

Mark A. Rynning, P.E., M.B.A. Harold E. Schmidt, Jr., P.E., DEE James E. Christopher, P.E.

Charles W. Drake, P.G. William D. Musser, P.E., P.H.

OFFICERS:

Marco H. Rocca, C.M.C. Roderick K. Cashe, P.E. Douglas P. Dufresne, P.G. Jon D. Fox, P.E. Daniel M. Nelson, P.E.

Via UPS Ground

Ms. Simone Core, P.E.
Florida Department of Environmental Protection
Southwest District
3804 Coconut Palm Drive
Tampa, Florida 33619

Subject:

Enterprise Recycling & Disposal Facility Certification for Cell 16 and Portion of Cell 1

Permit No. 177982-001-SC

Pasco County

NOV 2 4 2004

Department of Environmental Protection SOUTHWEST DISTRICT

BY

Dear Ms. Core:

On behalf of Angelo's Aggregate Materials, Ltd., Hartman & Associates, Inc. (HAI) is submitting responses to your comments regarding the above referenced certification submittal. Your comments are stated first with our responses following.

ſ.

1. The summary of deviations indicates that the slope on the west side of Cell 1 was constructed steeper than 6(H):1(V). Please indicate the slope at which the west side of Cell 1 was constructed.

Response: The side slopes on the west side of Cell 1 were not surveyed, however, based on a field inspection of the facility, the slopes appear to be near vertical. Hence, the erosion control measures outlined in the Operations Plan must be implemented on an as needed basis.

2. The bottom elevation of cell 16 was constructed at approximately 76 ft NGVD. The minor modification currently in-house indicates an elevation of 80 NGVD for Cell 16. Please indicate the type of material that will be utilized for backfilling Cell 16 to 80 NGVD prior to waste disposal. Also please note that the remainder of Cell 1 will be approved for waste disposal, however Cell 16 will only be approved for temporary stormwater management and will require re-certification prior to disposal of waste in the cell.

201 EAST PINE STREET • SUITE 1000 • ORLANDO, FL 32801-2723 TELEPHONE (407) 839-3955 • FAX (407) 839-3790 • www.consulthai.com

See Band Report

November 24, 2004

Florida DEP 3804 Coconut Palm Drive Tampa, Florida 33619

Attention:

Simone Core

Reference:

Response to FDEP comments

Angelo's Aggregate Materials, Ltd. Enterprise Landfill, Dade City, Florida

UES Project No. 80540-001-02

Dear Ms. Core:

In response to your comments items 4, 6 and 9 to Hartman & Associates, Inc., we are providing the following responses as follows:

Comment 4: We are in the process of finalizing the pictures in appendix F and completing a general location plan.

Comment 6: The density and permeability tests from July 7, 2004 were for Section 3 but were omitted from the site inspection report. Likewise, the two permeability tests taken for Section 4 on July 8, 2004 were also omitted from the site inspection report.

Comment 9: The July 26, 2004 site inspection report indicated that tests will be done at a later date, however, testing for Cell 16 had been completed and the contractor was beginning cell 1, but due to wet soils, the contractor decided to stop work. Weather did not permit the contractor to start for about a month.

If you have additional comments or need additional information, please do not hesitate to contact us.

Respectfully submitted, Universal Engineering Sciences, Inc.

Mark Hardy, P.E. Tampa Manager

Cc. Hartmann and Associates, Inc.

November 24, 2004

Florida DEP 3804 Coconut Palm Drive Tampa, Florida 33619

Attention:

Simone Core

Reference:

Response to FDEP comments

Angelo's Aggregate Materials, Ltd. Enterprise Landfill, Dade City, Florida UES Project No. 80540-001-02

Dear Ms. Core:

In response to your comments items 4, 6 and 9 to Hartman & Associates, Inc., we are providing the following responses as follows:

Comment 4: We are in the process of finalizing the pictures in appendix F and completing a general location plan.

Comment 6: The density and permeability tests from July 7, 2004 were for Section 3 but were omitted from the site inspection report. Likewise, the two permeability tests taken for Section 4 on July 8, 2004 were also omitted from the site inspection report.

Comment 9: The July 26, 2004 site inspection report indicated that tests will be done at a later date, however, testing for Cell 16 had been completed and the contractor was beginning cell 1, but due to wet soils, the contractor decided to stop work. Weather did not permit the contractor to start for about a month.

If you have additional comments or need additional information, please do not hesitate to contact us.

Respectfully submitted,

Universal Engineering Sciences, Inc.

Mark Hardy, F.E. Tampa Manager

Cc: Hartmann and Associates, Inc.



UNIVERSAL ENGINEERING SCIENCES, INC.

9802 Palm River Road Tampa, Florida 33619

Telephone: (813) 740-8506 Fax: (813) 740-8706





Date:	11-24-04 Time:	5:00	Pages:	<u>2</u>	
T ◎:					
Company:	Florida DE	P			.'
Attention:	Jeff Roge	LZ			ì
Fax #:	352-567-				
Subject:					· ,
FR©M:					
Name:	Mark Han	dy	•		
Transmittee	1: Andrea Fle	Cal			
REMARKS:					



Department of Environmental Protection

Jeb Bush Governor Southwest District 3804 Coconut Palm Drive Tampa, Florida 33619 November 19, 2004

Colleen M. Castille Secretary

Mr. Dominic Iafrate Angelo's Aggregrate Materials, Ltd. 1755 20th Avenue SE Largo, Florida 33771

Re:

Enterprise Recycling & Disposal Facility Certification for Cell 16 and portion of Cell 1 Permit No. 177982-001-SC

Pasco County

Dear Mr. Iafrate:

This is to acknowledge receipt of the certification of construction completion prepared by Hartman & Associates, Inc., dated October 14, 2004, (received October 15, 2004), to certify Cell 16 and a portion of Cell 1 of a Class III landfill. Please be advised that based on the information submitted, the certification is <u>not approved</u>.

Your submittal is <u>incomplete</u>. Please provide the information listed below promptly. Details are as follow:

- The summary of deviations indicates that the slope on the west side of Cell 1 was constructed steeper than 6(H):1(V). Please indicate the slope at which the west side of Cell 1 was constructed.
- The bottom elevation of cell 16 was constructed at approximately 76 ft NGVD. The minor modification currently in-house indicates an elevation of 80 NGVD for Cell 16. Please indicate the type of material that will be utilized for backfilling Cell 16 to 80 NGVD prior to waste disposal. Also please note that the remainder of Cell 1 will be approved for waste disposal, however Cell 16 will only be approved for temporary stormwater management and will require re-certification prior to disposal of waste in the cell.
- Please note that Cell 15 was approved only for temporary stormwater management. Therefore, Cell 15 will require re-certification prior to waste disposal occurring in that cell.

Mr. Dominic Iafrate Angelo's Aggregrate Materials, Ltd. Certification of Construction Completion - 0177982-001–SC Page 2 of 3

- The pictures in Appendix F were not labeled. Please label these pictures and provide a plan view that shows the general location and re-submit to the Department.
- June 30, 2004 of the site inspection report indicates that only 1 foot of clay liner was compacted on that day. The Department is unclear how three permeability samples were taken (one sample per lift) when only one lift was completed that day and the area was less than an acre. Please clarify.
- July 6, 2004 to July 8, 2004 site inspections do not indicate whether permeability tests were conducted for Section 4 and whether IPD and permeability tests were conducted for Section 3. Please address.
- $\sqrt{3}$. July 13, 2004 to July 15, 2004 site inspections. It is not clear whether one permeability test was conducted per acre per lift during the backfilling for all sections.
- July 15, 2004 of the site inspection report indicates that "backfilling will resume on 7/19/04". However, a report was not included for July 19, 2004.
- July 26, 2004 of the site inspection report indicates that "test will be done at a later date". There is no site inspection report indicating that additional tests were done for Cell 16 after July 26, 2004.
- 10. September 14, 2004 of the site inspection report indicates that the density and permeability tests for Cell 1 will be done at a later date. A site inspection report after September 14, 2004 was not provided.
- Appendix E. Please note that the Density Test Location Plan does not show test nos. 64 through 69. Please address.
- Please note also that since Cell #2 is not included with this certification. Density test nos. 50, 63, 59, 51, 62, 58, 61, 60 and 57 have not been reviewed.
- Please clarify if limerock or soft ground was encountered in Cell 16 during excavation. If so, please provide a plan sheet showing the affected areas.
- Your email dated November 9, 2004 indicated the possibility of further revision to the sequence of fill outlined under the modification currently in-house. Please clarify your proposed sequence of fill.
- 15. Financial assurance has only been provided for cell 1 (see attached letter). Proof of funding for financial assurance will be needed prior to moving to another cell.

Mr. Dominic Iafrate Angelo's Aggregrate Materials, Ltd. Certification of Construction Completion - 0177982-001-SC Page 3 of 3

You are requested to submit four (4) copies of your response to this letter as one complete package with an original and three copies of all correspondence (with one copy sent to Ms. Susan Pelz). Please contact me at (813) 744-6100, Extension 382, should you have any question.

Sincerely,

Simone Core, P.E. Solid Waste Section

Southwest District

Attachment

cc: Jennifer L. Deal, P.E., [Hartman & Associates, Inc., 201 East Pine Street, Suite 1000, Orlando, FL 32801-2723]

Susan Pelz, P.E., [FDEP - SWD] Fred Wick, [FDEP - Tallahassee]



Department of **Environmental Protection**

leb Bush Governor

Southwest District 3804 Coconut Palm Drive Tampa, Florida 33619

Colleen M. Castille Secretary

Mr. Dominic lafrate Angelo's Aggregate Materials, Ltd. 1755 20th Ave. S.E. Largo, Fl. 33771

April 9, 2004

RE:

Enterprise Recycling & Disposal Class III Landfill Located west of Auton Road, Dade City, Fl.

Financial Assurance Cost Estimates

Permit Nos.: 177982-001-SC and 177982-002-SO, Pasco County

Dear Mr. lafrate:

This letter is to acknowledge receipt of the inflation-adjusted cost estimates dated March 1, 2004 (received March 2, 2004), for closing and long-term care of the Enterprise Recycling Class III Landfill. The cost estimates received March 2, 2004 (total closing \$456,612.14 and \$52,723.38/year x 30 years = \$1,581,701.51 total long-term care), are **APPROVED for 2004**. The approved cost estimates are for closing and long-term care of 6.08 acres (Cell 1, Phase 4) only. The next annual update (revised or inflation-adjusted estimates) is due no later than March 1, 2005.

A copy of these estimates will be forwarded to Mr. Fred Wick, Solid Waste Section, FDEP, 2600 Blair Stone Road, Tallahassee, Florida 32399-2407. Please work with him directly to assess the facility's compliance with the funding mechanism requirements of Rule 62-701.630, F.A.C. If you have any questions, you may contact me at (813) 744-6100 ext. 386.

Sincerely.

Steven G. Morgan Solid Waste Section

Southwest District

sgm CC:

Jennifer Deal, P.E., Hartman & Associates, 201 E. Pine St., Ste. 1000, Orlando, Fl. 32801 Fred Wick, FDEP, Tallahassee, w/attachment Kim Ford, P.E., FDEP Tampa

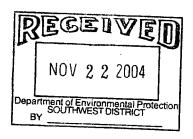
"More Protection, Less Process"

Printed on recycled paper.

Entranse constructions of SC Smc

November 18, 2004

Ms. Susan Pelz, P.E. \(\frac{1}{2}\)
Southwest District Solid Waste Manager
Florida Department of Environmental Protection
3804 Coconut Palm Drive
Tampa, Florida 33619



Re: Certification of Construction Completion – Cell 1 – South and West Sections – Enterprise Recycling and Disposal Facility – Pasco County

Dear Ms. Pelz;

Hartman and Associates, Inc. submitted a Certification of Construction Completion Form # 62-701.900 (2) on behalf of Enterprise Recycling and Disposal Facility prior to placement of solid waste in the west and south areas of Cell 1. This Certification was hand carried to your office on October 15th, 2004. Enterprise Recycling and Disposal Facility provided the fourteen day advanced notice to the Department so that the Department had the opportunity to inspect the balance of Cell 1 in accordance with FAC 62-701.320 (9)(a). The Facility was inspected on November 1st, 2004, three days beyond the 14 day required notice, at which time Mr. Jeff Rogers was informed the letter authorizing disposal would be received in a couple of days.

Due to Enterprise Recycling and Disposal Facility attempt to comply with the permitted fill sequence in the active portion of the cell as well as the need to continue to provide disposal for our clients and our transfer facility Enterprise Recycling and Disposal Facility will commence disposal of waste in the west and south portions of Cell 1 on November 19th, 2004. In addition a review of the FAC 62-701.320 provides no requirement of a letter approving certification. If you have any questions relating to this letter you may contact Jennifer Deal, P.E. or myself @ 407-839-3955, Ext. 153 and 810-217-0726 respectively.

ing na kanada kanada ang kanada na pangana na kanada tanggaran na tigitar na tanggaran na tanggaran na salah s Banada 1 magana na tanggaran na pangana na panggaran na kanada na kanada pangana na pangana na banada na banad

Sincerely,

Dominic Iafrate

Cc: William Kutash, Program Administrator Jennifer Deal, P.E., Hartman & Associates, Inc.

to the constant of the second of the second



HARTMAN & ASSOCIATES, INC.

engineers, hydrogeologists, surveyors & management consultants

201 EAST PINE STREET - SUITE 1000 - ORLANDO, FL 32801 TELEPHONE (407) 839-3955 - FAX (407) 481-8447

	· 🛦	V
r	A	Λ

Job Number: 99.0331.017, File 12.0

То:	Susan J. Pelz, P.E.
	FDEP
Phone:	(813) 744-6100, ext. 386
Fax:	(813) 744-6125
cc:	
Re:	Letter from Dominic Infrate

Date:	11/18/04	
No. of pages incl. cover page:		2

From:	Jennifer L. Deal, P.E.
	Hartman & Associates, Inc.
Phone:	(407) 839-3955 ext. 153
Fax:	(407) 839-2066

REMARKS:	Orgent	⊠ For your review	As Requested	Please comment
Susan,				
I am forwarding	the following lette	er on behalf of Domin	ic Iafrate of Angelo's.	
Jennifer				
·				

The information contained in this facsimile transmission may be legally privileged and is intended for the use of the individual(s) or entity(ies) named above. If you are not the intended recipient, you are hereby notified that any use dissemination, distribution or copying of this facsimile or its information is strictly prohibited. If you have received this facsimile in error, please immediately notify the sender by telephone or facsimile using the above referenced number to arrange for the return of the original documents.

November 18, 2004

Ms. Susan Pelz, P.E.
Southwest District Solid Waste Manager
Florida Department of Environmental Protection
3804 Coconut Palm Drive
Tampa, Florida 33619

Re: Certification of Construction Completion – Cell 1 – South and West Sections – Enterprise Recycling and Disposal Facility – Pasco County

Dear Ms. Pelz;

Hartman and Associates, Inc. submitted a Certification of Construction Completion Form #62-701.900 (2) on behalf of Enterprise Recycling and Disposal Facility prior to placement of solid waste in the west and south areas of Cell 1. This Certification was hand carried to your office on October 15th, 2004. Enterprise Recycling and Disposal Facility provided the fourteen day advanced notice to the Department so that the Department had the opportunity to inspect the balance of Cell 1 in accordance with FAC 62-701.320 (9)(a). The Facility was inspected on November 1st, 2004, three days beyond the 14 day required notice, at which time Mr. Jeff Rogers was informed the letter authorizing disposal would be received in a couple of days.

Due to Enterprise Recycling and Disposal Facility attempt to comply with the permitted fill sequence in the active portion of the cell as well as the need to continue to provide disposal for our clients and our transfer facility Enterprise Recycling and Disposal Facility will commence disposal of waste in the west and south portions of Cell 1 on November 19th, 2004. In addition a review of the FAC 62-701.320 provides no requirement of a letter approving certification. If you have any questions relating to this letter you may contact Jennifer Deal, P.E. or myself @ 407-839-3955, Ext. 153 and 810-217-0726 respectively.

Sincerely,

Dominic Iafrate

Cc: William Kutash, Program Administrator Jennifer Deal, P.E., Hartman & Associates, Inc. $f TETRA\ TECH$ / hartman & associates, inc.

EXECUTIVE TEAM:

Gerald C. Hartman, P.E., DEE Harold E. Schmidt, Jr., P.E., DEE James E. Christopher, P.E. Charles W. Drake, P.G. Mark A. Rynning, P.E., M.B.A. William D. Musser, P.E., P.H. Lawrence E. Jenkins, P.S.M.

SENIOR ASSOCIATES:

Marco H. Rocca, C.M.C. Roderick K. Cashe, P.E. Douglas P. Dufresne, P.G. Jon D. Fox, P.E. Troy E. Layton, P.E., DEE Daniel M. Nelson, P.E.

engineers, hydrogeologists, surveyors & management consultants

October 14, 2004

HAI #99.0331.017 File 12.0

ASSOCIATES

Les H. Porterfield, P.E. Andrew T. Woodcock, P.E., M.B.A. John P. Toomey, P.E., Jennifer L. Woodall, P.E. Rafael A. Terrero, P.E., DEE Iill M. Hudkins, P.E. Valerie C. Davis, P.E. Charles M. Shultz, P.E. Sean M. Parks, AICP, QEP C. Michelle Gaylord Tara L. Hollis, C.P.A., M.B.A. W. Bruce Lafrenz, P.G. Alexis K. Stewart, P.E. Christopher W. Hardin, P.E. James R. Warner, E.I.

Via UPS Ground

Ms. Susan Pelz, P.E. Florida Department of Environmental Protection Southwest District 3804 Coconut Palm Drive Tampa, Florida 33619

Subject:

Southwest District Tampa Cell 16 and Remainder of Cell 1 Confining Layer Certification

Enterprise Recycling & Disposal Facility

Angelo's Aggregate Materials, Ltd.

FDEP Permit Nos. 177982-001-SC, 177982-002-SO

Pasco County, Florida

Dear Ms. Pelz:

On behalf of Angelo's Aggregate Materials, Ltd. (Angelo's), Hartman & Associates, Inc. (HAI) is submitting this confining layer certification for Cell 16 and the remainder of Cell 1 at the above referenced facility. Confining layer construction activities were completed in Cell 16 on July 23, 2004 and in Cell 1 on September 14, 2004. The certification form and referenced summary of deviations are included in Appendix A. Certification of Cell 16 will allow removal of the temporary berm between Cells 15 and 16, and will allow run-off from the disposal area into Cell 16.

Specific Condition 9.c. of the construction permit, in part, states "The maximum hydraulic conductivity below or as part of each cell floor shall be less than 1 x 10⁻⁶ cm/sec in a continuous layer of at least 36 inches in thickness, unless otherwise approved in writing by the Department."

Confining Layer Construction

Construction of the confining layer in Cell 16 began on June 30, 2004. A representative of Universal Engineering Sciences (UES) was on-site on behalf of HAI to photograph and document all work performed at the site, and to conduct in-place density testing on the new confining layer lifts. The contractor used a track hoe to excavate the cell. Foresight Surveyors, Inc. verified the excavation grades to ensure that the appropriate base elevation was achieved.

> 201 EAST PINE STREET • SUITE 1000 • ORLANDO, FL 32801-2723 TELEPHONE (407) 839-3955 • FAX (407) 839-3790 • www.consulthai.com A TETRA TECH COMPANY (Offices throughout Florida and Nationwide)

See bound report The



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

•
DEP Form # 62-701.900(2) Form Title Certification of Construction Completion Effective Date May 19, 1994
DEP Application No(Filled by DEP)

Certification of Construction Completion of a Solid Waste Management Facility

DEP Construction Permit No: 177982-001-SC	County: Pasco	
Name of Project: Enterprise Recycling & Dispos	sal Facility	Sour I 5 2004
Name of Owner: Angelo's Aggregate Materials	, Ltd.	OUH S ZOO
Name of Engineer: Hartman & Associates, Inc		of Cell 1, Strict and
Type of Project: Confining layer certification for	Cell 16, and the west and south areas	of Cell 1, Cr
see attached surveys from Foresight Surveyors		
Cost: Estimate \$ 100,000	Actual \$_150,000	
Site Design: Quantity: 1500 cy/day ton	/day Site Acreage: 6.7	
Deviations from Plans and Application Appro	oved by DEP: Please see the attached	I summary.
d many		
1		
3		
Address and Telephone No. of Site: 41111 E	nterprise Road, Dade City, FL 33525	
352-567-7676		
Name(s) of Site Supervisor:		
Date Site inspection is requested: October 22	, 2004	
This is to certify that, with the exception of project has been completed in substantial accompleted.	of any deviation noted above, the	construction of the y Construction
Permit No. <u>177982-001-SC</u>	:Dated: October 5, 2001	Hartman & Associates, Inc. 201 E. Pine St., Suite 1000 Orlando, FL 32801 Engineering Business #5814
Date: 10/14/04	Signature of Professional E	
	Page 1 of 1	Plorida Registration 10/14/04

TETRA TECH, INC.

HARTMAN & ASSOCIATES, INC.

Mark A. Rynning, P.E., M.B.A.
Harold E. Schmidt, Jr., P.E., DEE
James E. Christopher, P.E.
Charles W. Drake, P.G.
William D. Musser, P.E., P.H.

ASSOCIATES

Les H. Porterfield, P.E.
drew T. Woodcock, P.E., M.B.A.
John P. Toomey, P.E.
Jennifer L. Woodall, P.E.
Rafael A. Terrero, P.E., DEE
Jennifer C. Davis, P.G.
Charles M. Shultz, P.E.
Sean M. Parks, AICP, QEP
W. Bruce Lafrenz, P.G.
Alexis K. Stewart, P.E.
Christopher W. Hardin, P.E.

HAI #99.0331.017 James R. Warner, P.E. File 12.0

January 5, 2005

Via UPS Overnight

Ms. Simone Core, P.E.
Florida Department of Environmental Protection
Southwest District
3804 Coconut Palm Drive
Tampa, Florida 33619

Subject:

OFFICERS:

Lawrence E. Jenkins, P.S.M.

SENIOR ASSOCIATES: Marco H. Rocca, C.M.C. Roderick K. Cashe, P.E. Douglas P. Dufresne, P.G. Jon D. Fox, P.E. Daniel M. Nelson, P.E.

Response to Cell 16 and Cell 1 Certification Comments

Enterprise Recycling & Disposal Facility Angelo's Aggregate Materials, Ltd.

FDEP Permit Nos. 177982-001-SC, 177982-002-SO

Pasco County, Florida

Dear Ms. Core:

On behalf of Angelo's Aggregate Materials, Ltd., Hartman & Associates, Inc. (HAI) is providing responses to your request for additional information regarding the certification documentation for Cells 1 and 16 at the Enterprise Recycling and Disposal Facility in Dade City, Florida. Your comments are stated first with our responses following.

1. Please provide revised site inspection reports for July 7 and 8, 2004 indicating that the required IPD and permeability tests were conducted for Sections 3 and 4. As of the date of this letter, UES has not submitted revised site inspection reports.

Response: Please see the attached revised reports.

2. Please note that Appendix E does not indicate that permeability tests were conducted on July 26, 2004. Please clarify further.

Response: Please see the attached letter from HAI.

3. Cell 15 was approved only for stormwater management. Therefore, in order for Cell 15 to be approved for waste disposal, IPD and permeability tests must be conducted on the additional confining material required to raise the cell floor to an elevation of 80 feet NGVD. The IPD and permeability tests are to be conducted in accordance with the minor modification to the construction permit currently in-house.

DECETIVED

JAN 0 6 2005

By SOUTHWEST OIST FILE OISECTION



Department of Environmental Protection

Jeb Bush Governor Southwest District 3804 Coconut Palm Drive Tampa, Florida 33619

Colleen M. Castille Secretary

Mr. Dominic Iafrate Angelo's Aggregate Materials, Ltd. 1755 20th Ave. S.E. Largo, Fl. 33771

January 12, 2005

RE:

Enterprise Recycling & Disposal Class III Landfill

Permit Nos.: 177982-001-SC and 177982-002-SO, Pasco County Certification of Construction Completion, Cell 2 (5.57 acres)

Dear Mr. Iafrate:

On November 1, 2004, an inspection of the above-referenced facility relative to construction completion and adherence to the permit issued by the Florida Department of Environmental Protection (FDEP) was made by Simone Core, P.E. (FDEP) and Enterprise Landfill personnel.

Certification of Construction Completion dated December 15, 2004 (received December 16, 2004), and supplemental information dated December 15, 2004, December 21, 2004 and January 5, 2005 (received December 16, 2004, December 23, 2004, and January 6, 2005 respectively), has been received by the Department.

Based on the information submitted and the site inspection, the Department **approves** the construction certification (cell bottom) for Cell 2. Proof of financial assurance was received on January 10, 2005. Cell 2 shall be operated in accordance with the conditions of Operation permit 177982-002-SO. If you have any questions, you may contact me at (813) 744-6100 ext. 386.

Sincerely,

Susan J. Pelz, P.E. Solid Waste Manager Southwest District

sjp

Jennifer Deal, P.E., Hartman & Associates, 201 E. Pine St., Ste. 1000, Orlando, Fl. 32801, w/attachment William Kutash, Waste Program Administrator, FDEP Tampa Fred Wick, FDEP, Tallahassee John Morris, P.G., FDEP Tampa Douglas Hyman, P.E., FDEP Tampa, ERP

Cell 2 Cent B Approva / 1/12/05

"More Protection, Less Process"

Printed on recycled paper.



HARTMAN & ASSOCIATES, INC.

engineers, hydrogeologists, surveyors & management consultants

201 EAST PINE STREET, SUITE 1000, ORLANDO, FLORIDA 32801 TELEPHONE (407) 839-3955

> HYDROGEOLOGY FAX - (407) 839-2066 ADMIN./UTILITY ENGINEERING FAX - (407) 839-3790 CIVIL ENG./SURVEY/FINANCE FAX - (407) 481-8447

FACSIMILE TRANSMITTAL

TO:	Susa	in Pel	2, P.E.	FROM:	<u>Jen</u>	niter I	real
FAX:	813-	744-617	25	DATE:	111.	1/05	
RE:	Ente	priso	LF_	PROJECT:	HAI#	99.033	51.013
We au transm	re sending nitted as inc	you <u>3</u> pa	ages, includir	g this cover	sheet.	These page	s are being
			As requested For your use For your con For your app	nments			
HARI	O COPY:		Will be sent Will be sent	via regular ma via overnight by facsimile o via hand deliv	mail nly		
MESS	AGE: <	Jusan,					· .
PI	terpo	se He se fac loud li	ility F	re tejon Selfree Sousc I	_ 40 02	line you	
-							

TETRA TECH, INC.

Mark A. Rynning, R.E., M.R.A. Harold E. Schmidt, Jr., R.E., DEE James E. Christopher, R.B. Charles W. Drake, P.G. William D. Musser, P.E., P.H. Lowrence L. Jenkins, P.S.M.

SENTOR ASSOCIATES:

Marco H. Roccia, C.M.C. Roderick K. Cashe, P.E. Douglas P. Dyfreson, P.G. Jon D. Fox, P.E. Daniel M. Nelson, P.E.

HARTMAN & ASSOCIATES, INC.

engineers, hydrogeologists, surveyors & management consultants

January 11, 2005

Les A. Porterficial P.E. Andrew T. Woodenak Dil M. H. hei A. Ternero, P.B., DPE Jill M. Hudkins, P.E. Valctic C. Davis, KG. Charles M. Shultz, RE. an M. Parks, ACP, QEP W. Bruce Lairenz, Alexa K. Stewart

HAI #99.0331.013 Christopher W. Hardin File 12.0

Via Facsimile and U.S. Mail

Ms. Susan Pelz, P.E. Florida Department of Environmental Protection Southwest District 3804 Coconut Palm Drive Tampa, Florida 33619

Subject:

Disposal Operations in Cell 2

Enterprise Recycling & Disposal Facility

FDEP Permit No. 177982-002-SO

Pasco County, Florida

Dear Ms. Pelz:

At the request of Angelo's Aggregate Materials, Ltd. (Angelo's), Hartman & Associates, Inc. is submitting this notification to inform you that disposal operations in Cell 2 have been postponed until Thursday, January 13, 2005 at the above facility.

Disposal operations were originally scheduled to begin on Tuesday, January 4, 2005. However, you notified HAI that the updated financial assurance documentation had not yet been submitted to the Department for review. Angelo's was unaware that this documentation had not yet been submitted. Upon notification, Angelo's took action to ensure that the updated documentation was received by the Department on January 6, 2005. We are in receipt of the approval letter from Mr. Chad Fetrow.

Angelo's understands that the Solid Waste Section has been short-handed in Ms. Core's absence and this puts a lot of pressure on you to complete the submittal reviews. It is our understanding that the Department is now in receipt of the additional information submitted by HAI and Universal Engineering Sciences, and that the Solid Waste Financial Coordinator has issued approval of the updated financial assurance mechanism for this facility. Based on our conversation today, we understand that these items are next on your list for review. We are confident that the information submitted will sufficiently address Ms. Core's comments.

The need for the additional disposal area in Cell 2 prior to receipt of the Department's written approval is necessary in order to prevent filling Cell 1 higher than permitted. Cell 2 is the next disposal area to be filled in accordance with the Operations Plan and construction and operation permits. At this time, Angelo's intends to dispose of solid waste in the northern portion of Cell

Ms. Susan Pelz, P.E. January 11, 2005 Page 2

2, building on the southern slope of the filled Cell 1, and will utilize the smallest footprint feasible until your written approval is issued.

Thank you for your understanding in this matter. Please call me if you have any questions.

Very truly yours,

Hartman & Associates, Inc.

Jennifer L. Deal, P.E.

Project Manager

N/hydro/jld/larkin/pelz2.doc

cc: Dominic Iafrate, Angelo's

Jeff Rogers, Angelo's

TETRA TECH, INC.

OFFICERS:

Mark A. Rynning, P.E., M.B.A. Harold E. Schmidt, Jr., P.E., DEE James E. Christopher, P.E. Charles W. Drake, P.G. William D. Musser, P.E., P.H. Lawrence E. Jenkins, P.S.M.

SENIOR ASSOCIATES:

Marco H. Rocca, C.M.C. Roderick K. Cashe, P.E. Douglas P. Dufresne, P.G. Jon D. Fox, P.E. Daniel M. Nelson, P.E.

HARTMAN & ASSOCIATES, INC.

engineers, hydrogeologists, surveyors & management consultants

ASSOCIATES:

Les H. Porterfield, P.E.
Andrew T. Woodcock, P.E., M.B.A.
John P. Toomey, P.E.
Jennifer L. Woodall, P.E.
Rafael A. Terrero, P.E., D.B.B.
Jill M. Hudkins, P.E.
Valerie C. Davis, P.G.
Charles M. Shultz, P.E.
Sean M. Parks, AICP, Q.EP
W. Bruce Lafrenz, P.G.
Alexis K. Stewart, P.E.
Christopher W. Hardin, P.E.
James R. Warner, P.E.

January 3, 2005

Wia Facsimile and UPS Ground
Ms. Susan Pelz, P.E.

Florida Department of Environmental Protection Southwest District 3804 Coconut Palm Drive Tampa, Florida 33619

Subject:

Initiation of Disposal Operations in Cell 2 Enterprise Recycling & Disposal Facility

FDEP Permit No. 177982-002-SO

Pasco County, Florida

Dear Ms. Pelz:

At the request of Angelo's Aggregate Materials, Ltd. (Angelo's), Hartman & Associates, Inc. is submitting this notification to inform you that disposal operations in Cell 2 are scheduled to begin on Tuesday, January 4, 2005 at the above facility.

Certification documentation for Cell 2 was submitted to the Department on December 16, 2004, and the cell floor was inspected by Ms. Simone Core on November 1, 2004. In accordance with FAC Rule 62-701.320(9)(a), it is Angelo's intent to begin disposal operations in this area since it has been longer than 14 days since the Department received the submittal, and no Department comments have been received to date.

Please call us if you have any questions.

Very truly yours,

Hartman & Associates, Inc.

Jennifer L. Deal, Project Manager

N/hydro/jld/larkin/pelz2.doc

cc:

Dominic Iafrate, Angelo's Jeff Rogers, Angelo's

TETRA TECH, INC.

OFFICERS:

Mark A. Rynning, P.E., M.B.A. Harold E. Schmidt, Jr., P.E., DEE James E. Christopher, P.E. Charles W. Drake, P.G. William D. Musser, P.E., P.H. Lawrence E. Jenkins, P.S.M.

SENIOR ASSOCIATES:

Marco H. Rocca, C.M.C.

Roderick K, Cashe, P.E. Douglas P. Dufresne, P.G. Jon D. Fox, P.E.

Daniel M. Nelson, P.E.

HARTMAN & ASSOCIATES, INC.

engineers, hydrogeologists, surveyors & management consultants

ASSOCIATES:

Les H. Porterfield, P.E. Andrew T. Woodcock, P.E., M.B.A.
John P. Toomey, P.E.
Jennifer L. Woodall, P.E. Rafael A. Terrero, P.E., DEE Jill M. Hudkins, P.I. Valerie C. Davis, P.G Charles M. Shultz, P.E Sean M. Parks, AICP, OEP HAI #99.0331.013 W. Bruce Lafrenz, P.G. Alexis K. Stewart, P.E. Christopher W. Hardin, P.E. File 12 0 James R. Warner, P.E.

January 5, 2005

File 12.0

Via UPS Overnight

Ms. Simone Core, P.E. Florida Department of Environmental Protection Southwest District 3804 Coconut Palm Drive Tampa, Florida 33619

Subject:

Response to Cell 2 Certification Comments Enterprise Recycling & Disposal Facility Angelo's Aggregate Materials, Ltd.

FDEP Permit Nos. 177982-001-SC, 177982-002-SO

Pasco County, Florida



Dear Ms. Core:

On behalf of Angelo's Aggregate Materials, Ltd., Hartman & Associates, Inc. (HAI) is providing responses to your request for additional information regarding the certification documentation for Cell 2 at the Enterprise Recycling and Disposal Facility in Dade City, Florida. Your comments are stated first with our responses following.

1. The cover letter indicates that construction activities were completed on September 29, 2004. Please note that during the Department's site inspection on November 1, 2004, final construction activities on Cell 2 were still in progress. Please clarify.

Response: According to Angelo's Project Manager, Mr. Jeff Rogers, the cell floor construction was completed on September 29, 2004. However, after cell construction was completed, Angelo's compacted additional confining material into the side slopes of the cell for additional coverage. The cell was then fine graded to eliminate the equipment tracks and Foresight Surveyors completed the fill survey. Mr. Rogers stated that these were the activities observed by the FDEP inspector on November 1, 2004.

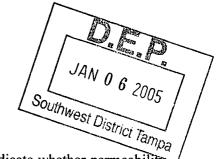
2. Appendix D, page 1 contains a typographic error. It appears that the last sentence of the paragraph should state 87 ft NGVD on the south end of cell 2 rather than the north end. Please correct.

Response: The error has been corrected and a revised page is attached.

> 201 EAST PINE STREET • SUITE 1000 • ORLANDO, FL 32801-2723 TELEPHONE (407) 839-3955 • FAX (407) 839-3790 • www.consulthai.com

> > See Board deput

Ms. Simone Core, P.E. January 5, 2005 Page 2



3. September 29, 2004 site inspection report [Appendix D] does not indicate whether permeability and IPD tests were taken on the second and third lifts of Cell 2. Please provide a revised September 29, 2004 site inspection report.

Response: A revised page is attached.

4. The majority of test location descriptions on the In-place Density Test Report do not correspond to the Figure from UES. Please provide a figure drawn to scale showing IPD test locations accurately reflecting the test location descriptions. For example, test nos. 50 and 51 correspond to the northern end of Cell 2 on the figure provided by UES, however the test report indicates that test nos. 50 and 51 are to the south and east of the SW corner of Cell 2. Please clarify.

Response: HAI has requested that UES prepare a response and submit directly to the Department.

5. The majority of test location descriptions on the Permeability Test Report do not correspond to the Figure from UES. Please provide a figure drawn to scale showing permeability test locations accurately reflecting the test location descriptions.

Response: HAI has requested that UES prepare a response and submit directly to the Department.

6. Please provide more detailed location descriptions for test nos. 37, 39, 42 through 45 and 47 through 53 on the Permeability Test Report.

Response: HAI has requested that UES prepare a response and submit directly to the Department.

7. Please indicate on the IPD and Permeability Test Reports which test nos. correspond to the first, second and third lift.

Response: HAI has requested that UES prepare a response and submit directly to the Department.

8. It appears that an insufficient number of permeability tests were conducted. At 5.57 acres, a minimum of 18 permeability tests should have been conducted. In addition, the figure provided by UES shows that tests were not conducted along the eastern and southern boundary of Cell 2. Please address.

Response: Fifteen permeability tests were conducted in Cell 2. HAI determined this to be an appropriate number of tests based on prior discussions regarding the required tests for Cell 16. HAI and the Department agreed that 15 tests would be adequate for Cell 16, with acreage of 5.75 acres. Therefore, 15 tests for Cell 2, which is slightly smaller with 5.57 acres, should be adequate.

UES selected the locations of the permeability tests based on the field conditions at the time of sample collection for the first lift. These field conditions include temporary storage locations of confining material to be spread and compacted, equipment locations, and areas completed. The test locations for

Ms. Simone Core, P.E. January 5, 2005 Page 3

the second and third lifts were completed near to the first lift test locations. Since in-place density tests were also conducted during construction, the permeability tests were completed for confirmation of the field test results. Based on the consistent quality of the in-place density test and laboratory permeability test results, we are confident the entire cell has an adequate confining layer.

However, during construction of the next disposal cell, HAI will predetermine a more disperse pattern for confining layer lift permeability testing in order to cover a larger area of the cell floor.

9. Please note that future cells must be constructed with side slopes of 6(H):1(V) in accordance with the construction permit.

Response: Angelo's will construct the future cells with appropriate side slopes unless a modification to the construction permit is issued.

10. UES Photograph Location Plan does not show the location of photos 16 and 17 that were on the CD. Please provide a revised Photograph Location Plan.

Response: Photos 16 and 17 were not intended for Cell 2 certification purposes and were not taken within the boundaries of the Photograph Location Plan. Please disregard Photos 16 and 17.

The financial assurance funding must be approved by Fred Wick in Tallahassee. Please notify the Department once the funding has been approved.

Response: The updated financial assurance mechanism should be received by Fred Wick on Thursday, January 6, 2005.

We trust this submittal, along with the forthcoming approval of the updated financial assurance mechanism and information from UES, will satisfy the Department's requirements. Please call me if you have any questions.

Very truly yours,

Hartman & Associates, Inc.

Project Manager

Jennifer L. Deal, P.E.

JLD/cr/99.0331.013/corresp/cell 2 cert response Attachments

cc: Dominic Ia

Dominic Infrate, Angelo's Jeff Rogers, Angelo's

Susan Pelz, P.E., FDEP – Southwest District

Angelo's Recycles Materials

41111 Enterprise Rd. Dade City, FL 33525

Cell #2 Construction

Project Manager: Jeff Rogers

Construction Equipment: Cat D5 Dozer, Cat D8 Dozer, Komatsu PC1100 Excavator; New Holland sheepsfoot roller, (4) Terex 35 ton dump trucks, Volvo 35 ton dump truck

Construction Plan: Cell #2 will be excavated to a bottom grade of 82' NGVD on the north end of the cell sloping up to 84' NGVD on the South end of the cell. Once the bottom grade has been surveyed, three feet of clay will then be compacted in the cell in three 1 foot lifts. Each lift will then be tested at the rate of 1 test per lift for density and permeability. The density test pass 95% and the permeability must meet at least 1x10-6 cm per second. The test will be conducted by Universal Engineering. Cell #2 elevation will then be 85' NGVD on the north end sloping up to 87'NGVD on the south end.

Sept 14, 2004 Began placing and compacting the north west corner of cell #2 while working on cell #1. Clay was hauled with 5 dump trucks and spread with D5 and D8 dozer and compacted with sheepsfoot roller and at the end of the day all trucks were loaded and drove over compacted area to ensure desity was achieved. Called Universal to test 2nd lift area in cell #1 and take test on completed area of 1st lift in cell #2.

Sept 15, 2004 Universal engineering performed test on cell #1 2nd lift and cell #2 1st lift. Once test were taken began filling and compacting 3rd lift in cell #1 using 5 dump trucks, D5 and D8 dozer as well as sheepsfoot roller. Completed 3rd lift in cell #1.

Sept 16, 2004 received 2.2 inches of rain will try to resume placing and compacting clay on 20th.

Sept 20, 2004. Rain on the 18 resume re-compaction on 22nd. Universal tested 3rd lift on cell #1

Sept 22, 2004 resumed placing 1* lift on north and west sections of Cell #2 using 5 dump trucks, D5 and D8 dozer, and sheepsfoot roller. Called Universal to schedule tech for 23rd to perform density test as well as permeability test on compacted area in the north and west end of cell. Completed approximately 65 percent of 1st lift in Cell #2 and began placing clay on the second lift in Cell#2 on the area where the 1st lift had been tested

Sept 23, 2004 Universal arrived on site and tested 1st lift. Using 5 dump trucks, D5 and D8 dozer, and sheepsfoot roller. Completed the northern and western 65% of lift #2 and tested and also the northern approximate 65% of the 3rd lift and Universal tested

September 24, 2004 began placing and compacting clay on the first lift on the remaining south and east 35% of cell #2 Stopped by rain will resume construction on 28th.

September 28, 2004 resumed 1st lift on remaining 35% of Cell#2 placing and compacting clay using 5 dump trucks, D5 and D8 dozer, and sheepsfoot roller completed 1st lift and arranged for Universal to do testing all day on the 29th.

Sept 29, 2004 Universal tested remainder of the 1st lift in cell # 2. We placed and compacted the remaining 2nd and 3nd lifts in cell #2 using 5 dump trucks, D5 and D8 dozer, and sheepsfoot roller. Universal then preformed density and permeability test on the first and second lifts.

Sept 30th Cell #2 final graded and Foresight called for final top survey.

Note: After final cell construction Angello's compacted additional clay material into the side slopes of the cell for additional clay coverage. Fine grading was then preformed to clear equipment tracks. Foresight surveyed cell #2 after fine grading was completed. Some of these additional activities were still ongoing during the FDEP's Nov.1, 2004 inspection.

eff Rogers, Angelo's Project Manager



Consultants in: Geotechnical Engineering • Environmental Sciences Construction Materials Testing • Threshold Inspection • Private Provider Inspection

Mr. Dominic lafrate Angelo's Aggregate Materials 1755 20th Avenue SE Largo, Florida 33771

RE:

Enterprise Recycling and Disposal Facility

Cell #2 Certification

Dear Mr. lafrate:

In response to the letter from Simone Core, P.E. of the Solid Waste Section of FDEP, dated January 4, 2005, we offer the following response to items 4, 5, 6, and 7.

January 5, 2005

- 4. Density reports DR#10 and DR#12 have been revised. The in-place density location plan has also been revised showing accurate locations of tests. Revisions are included with this package.
- 5. The permeability location plan has been revised and a test location summary developed with locations for all permeability tests taken for cell #2. All revisions are included.
- 6. A summary report of test locations is included in this package.
- 7. Revisions to the density test reports and permeability summary have been made and are included.

We hope that this information is helpful in addressing the concerns of the FDEP and apologize for any inconvenience. Please do not hesitate to contact our office with any additional questions or concerns.

Sincerely,

Universal Engineering Sciences

David Barnett

Construction Services Manager

enclosures:

DR#10 r1

DR#12 r1

DR#13

PWSUM cell2

revised density test location plan revised permeability test location plan

9802 Palm River Road • Tampa, Fl 33619-4438 • (813) 740-8506 • Fax (813) 740-8706

oject No.: Report No.:

Revision:

80540-001-02 DR #10

Date:

September 14, 2004 January 6, 2005

Consultants in: Geotechnical Engineering • Environmental Sciences Construction Materials Testing • Threshold Inspection • Private Provider Inspection

9802 Palm River Road • Tampa, FI 33619-4438 • (813) 740-8506 • Fax (813) 740-8706

IN-PLACE DENSITY TEST REPORT

Client:

Angelo's Aggregate Materials

Attention: Dominic lafate 26400 Sherwood Street Warren, MI 48091

Project:

Dade City Landfill, 5 acre Clay Liner

Area Tested:

Clay Liner Fill in Cell #1 and #2, Fill

Reference

Datum:

0 = Top of Native

Type of Test - Field:

ASTM D-2937 Drive Cylinder Method ASTM D-698 Standard Proctor

Date Tested:

9/15/04

Remarks:

The tests below meet the minimum 95 percent relative soil compaction requirement of Laboratory Proctor maximum

dry density.

Laboratory:

TEST LOCATION			transit to	ATORY ULTS:	FIELD TEST RESULTS		
Test No.	Description of Test Location	Depth (ft.)	Maximum Density (pcf)	Optimum Moisture (%)	Dry Density (pcf)	Field Moisture (%)	Soil Compaction (%)
47	70' N 150' W From SW Corner of Cell #1	+2	108.6	16.5	110.0	10.1	101.2
48	70' N 215 W From SW Corner of Cell #1	+2	108.6	16.5	109.2	12.1	100.5
49	130' N 300' W From SW Corner of Cell #1	+2	108.6	16.5	108.8	12.6	100.1
50	50' South and 80' East of NW corner of Cell #2	+1	108.6	16.5	112.1	14.1	103.2
51	50' South and 110' West of NE cnr of cell #2	+1	108.6	16.5	109.9	15.1	101.2

Technician:

Vince Simmons

CC:

Client (1)

Reviewed By,

Universal Engineering Sciences, Inc. Certificate of Authorization No. 00000549

Mark K. Hardy, P.E. Tampa Branch Manager

Professional Engineer No. 57233

roject No.: Report No.:

80540-001-02

DR #12

September 27, 2004

Date: Revision:

January 6, 2005

9802 Palm River Road • Tampa, Fl 33619-4438 • (813) 740-8506 • Fax (813) 740-8706

Construction Materials Testing • Threshold Inspection • Private Provider Inspection

IN-PLACE DENSITY TEST REPORT

Client:

Angelo's Aggregate Materials Attention: Dominic lafate 26400 Sherwood Street Warren, MI 48091

Project:

Dade City Landfill, 5 acre Clay Liner

Area Tested:

Clay Liner, Backfill

Reference

Datum:

0 = Top of Native

Type of Test - Field:

ASTM D-2937 Drive Cylinder Method

Date Tested:

9/23/04

Laboratory:

ASTM D-698 Standard Proctor

Remarks:

The tests below meet the minimum 98 percent relative soil compaction requirement of Laboratory Proctor maximum

dry density.

TEST LOCATION			LABOR RESU	ATORY JLTS	FIELD TEST RESULTS		
Tëst No.	Description of Test Location	Depth (ft.)	Maximum Density (pcf)	Optimum Moisture (%)	Dry Density (pcf)	Field Moisture (%)	Soil Compaction (%)
57	290' South and 200' East of NW cnr of cell #2	+1	108.6	16.5	107.6	12.1	99.1
58	70' South and 100' East of NW cnr of cell #2	+2	108.6	16.5	111.8	11.6	102.9
59	70' South and 100' West of NE cnr of cell #2	+2	108.6	16.5	110.8	12.2	102.0
60	250' West and 280' South of NE cnr of cell #2	+2	108.6	16.5	110.1	11.6	101.4
61	105' East and 60' South of NW cnr of cell #2	+3	108.6	16.5	111.9	11.0	103.1
62	100' South and 100' West of NE car of cell #2	+3	108.6	16.5	108.7	11.4	100.1
63	270' South and 250' West of NE cnr of cell #2	+3	108.6	16.5	112.4	14.1	103.8

Technician:

Vince Simmons

CC:

Client (1)

Reviewed By,

Universal Engineering Sciences, Inc. Certificate of Authorization No. 00000549

Mark K. Hardy, P.E.

Tampa Branch Manager

Professional Engineer No. 57233

oject No.: Report No.: Date: 80540-001-02

lo.: DR #13

October 4, 2004

Consultants in: Geotechnical Engineering • Environmental Sciences Construction Materials Testing • Threshold Inspection • Private Provider Inspection

9802 Palm River Road • Tampa, FI 33619-4438 • (813) 740-8506 • Fax (813) 740-8706

IN-PLACE DENSITY TEST REPORT

Client:

Angelo's Aggregate Materials

Attention: Dominic lafate 26400 Sherwood Street Warren, MI 48091

Project:

Dade City Landfill, 5 acre Clay Liner

Area Tested:

Clay Liner in Landfill Cell #2, Backfill

Reference

Datum:

0 = Top of Native

Type of Test - Field:

ASTM D-2937 Drive Cylinder Method

Date Tested:

9/29/04

Laboratory:

ASTM D-698 Standard Proctor

Remarks:

The tests below meet the minimum 95 percent relative soil compaction requirement of Laboratory Proctor maximum

dry density.

TEST LOCATION			1 S. C. M. C	ATORY JETS	FIELD TEST RESULTS		
Test No.	Description of Test Location	Depth (ft.)	Maximum Density (pcf)	Optimum Moisture (%)	Dry Density (pcf)	Field Moisture (%)	Soil Compaction (%)
64	100' NE from SW Corner of Cell #2	+2	108.6	16.5	107.8	15.7	99.3
65	150' NW from SE Corner of Cell #2	+2	108.6	16.5	109.5	16.3	100.8
66	120' NE from SW Corner of Cell #2	+1	108.6	16.5	107.5	15.6	99.0
67	140' NW from SE Corner of Cell #2	+1	108.6	16.5	107.9	16.8	99.4
68	150' NW from SE Corner of Cell #2	+3	108.6	16.5	108.0	15.1	99.4
69	160' NE from SW Corner of Cell #2	+3	108.6	16.5	107.6	16.3	99.1

Technician:

Vince Simmons

CC:

Client (1)

Reviewed By,

Universal Engineering Sciences, Inc. Certificate of Authorization No. 00000549

Certificate of Authorization No. 00000549

Mark K. Hardy, P.E. Tampa Branch Manager

Professional Engineer No. 57233

Tate: 1/0//5

roject No: Report No.: Date: 80540-001-02 PWSUM Cell2 January 6, 2005

Consultants in: Geotechnical Engineering • Environmental Sciences
Construction Materials Testing • Threshold Inspection • Private Provider Inspection

9802 Palm River Road • Tampa, FI 33619-4438 • (813) 740-8506 • Fax (813) 740-8706

SUMMARY OF TRIAXIAL PERMEABILITY AND PERCENT PASSING NO. 200 SIEVE

Client:

Angelo's Aggregate Materials

Attention: Dominic lafate 26400 Sherwood Street Warren, MI 48091

Project:

Dade City Landfill, Cell #2

Tested By:

Greg Kemp

Ordered By:

David Barnett

Test	Location	Elev.	Percent	Permeability		
#			passing No. 200 Sieve	K (cm/s)	K ft/day	
36	50' South and 80' East of NW cnr of Cell #2	+1	60.2	5.6 E-09	1.59 E-05	
37	50' South and 110' West of NE cnr of cell #2	+1	54.3	1.8 E-08	5.0 E-05	
39	290' South and 200' East of NW cnr of cell #2	+1	47.7	2.0 E-08	5.6 E-05	
42	70' South and 100' West of NW cnr of cell #2	+2	45.5	2.7 E-08	7.5 E-05	
. 43	70' South and 100' West of NE cnr of cell #2	+2	45.7	6.6 E-08	1.9 E-04	
44	250' West and 280' South of NE cnr of cell #2	+2	48.1	6.0 E-08	1.7 E-04	
45	105' East and 60' South of NW cnr of cell #2	+3	48.9	1.3 E-07	3.8 E-04	
46	100' South and 100' West of NE cnr of cell #2	+3	52.4	6.1 E-08	1.73 E-04	
47	270' South and 250' West of NE cnr of cell #2	+3	61.1	1.2 E-08	3.4 E-05	
48	100' NE of SW corner of cell #2	+2	48.9	2.5 E-08	7.0 E-05	
49	150' NW of SE corner of cell #2	+2	54.4	9.5 E-08	2.7 E-04	
50	120' NE of SW corner of cell #2	+1	60.4	7.1 E-09	2.0 E-05	
51	140' NW of SE corner of cell #2	+1	46.2	3.3 E-07	9.5 E-04	
52	150' NW of SE corner of cell #2	+3	53.9	1.98 E-08	5.6 E-05	
53	160' NE of SW corner of cell #2	+3	49.7	1.2 E-08	3.3 E-05	

Reviewed By,

Universal Engineering Sciences, Inc. Certificate of Authorization No. 00000549

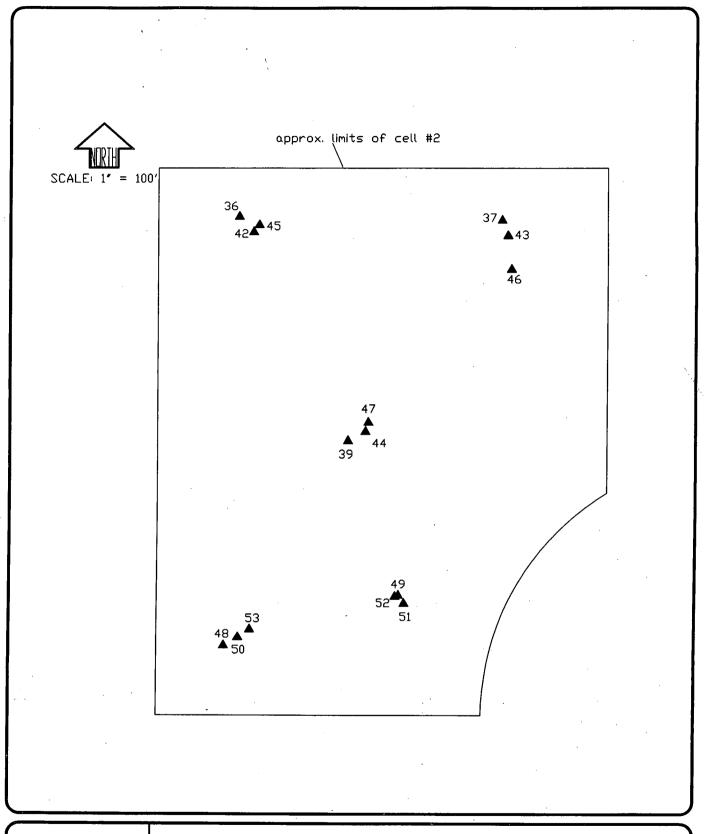
Mark K. Hardy, P.E. Tampa Branch Manager

Professional Engineer No. 57233

Date: __//6/03

Technician:

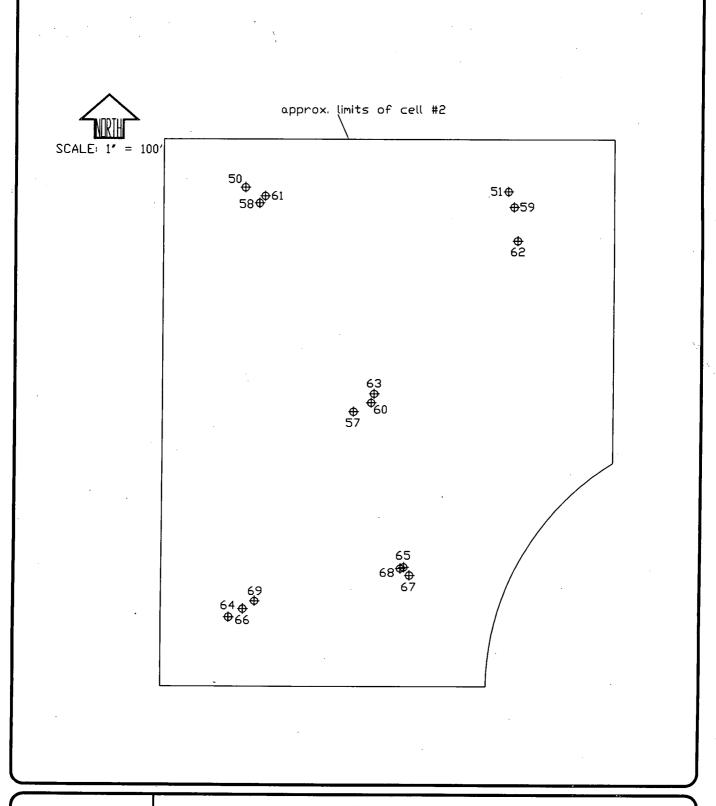
N/A





ANGELO'S AGGREGATE MATERIALS PERMIABILITY TEST LOCATION PLAN CLAY LINED CELL #2

DRAWN BY: D.B.	DATE: JAN 6, 2005	CHECKED BY: D.B.	DATE: JAN 6, 2005
SCALE: 1 : 100	PROJECT NO: 80540-001	-02 REPORT NO:	PAGE NO:





ANGELO'S AGGREGATE MATERIALS DENSITY TEST LOCATION PLAN CLAY LINED CELL #2

DRAWN BY: D.B.	DATE: JAN 6, 2005	CHECKED BY: D.B.	DATE: JAN 6, 2005
SCALE: 1 : 100	PROJECT NO: 80540-001	-02 REPORT NO:	PAGE NO:



Department of Environmental Protection

Jeb Bush Governor Southwest District 3804 Coconut Palm Drive Tampa, Florida 33619

Colleen M. Castille Secretary

January 4, 2005

Mr. Dominic Iafrate Angelo's Aggregate Materials, Ltd. 1755 20th Avenue SE Largo, Florida 33771

Re:

Enterprise Recycling & Disposal Facility

Certification for Cell 2 Permit No. 177982-001-SC

Pasco County

Dear Mr. Iafrate:

This is to acknowledge receipt of the certification of construction completion prepared by Hartman & Associates, Inc., dated December 15, 2004, (received December 16, 2004), to certify Cell 2 of a Class III landfill. Please be advised that based on the information submitted, the certification is <u>not approved</u>.

Your submittal is <u>incomplete</u>. Please provide the information listed below promptly. Details are as follow:

- 1. The cover letter indicates that construction activities were completed on September 29, 2004. Please note that during the Department's site inspection on November 1, 2004, final construction activities on Cell 2 were still in progress. Please clarify.
- 2. Appendix D, page 1 contains a typographic error. It appears that the last sentence of the paragraph should state 87 ft NGVD on the south end of cell 2 rather than the north end. Please correct.
- 3. September 29, 2004 site inspection report [Appendix D] does not indicate whether permeability and IPD tests were taken on the second and third lifts of Cell 2. Please provide a revised September 29, 2004 site inspection report.
- 4. The majority of test location descriptions on the In-place Density Test Report do not correspond to the Figure from UES. Please provide a figure drawn to scale showing IPD test locations accurately reflecting the test location descriptions. For example, test nos. 50 and 51 correspond to the northern end of Cell 2 on the figure provided by UES, however the test report indicates that test nos. 50 and 51 are to the south and east of the SW corner of Cell 2. Please clarify.
- 5. The majority of test location descriptions on the Permeability Test Report do not correspond to the Figure from UES. Please provide a figure drawn to scale showing permeability test locations accurately reflecting the test location descriptions.

"More Protection, Less Process"

Mr. Dominic Iafrate Angelo's Aggregate Materials, Ltd. Certification of Construction Completion - 0177982-001–SC (Cell 2) Page 2 of 2

- 6. Please provide more detailed location descriptions for test nos. 37, 39, 42 through 45 and 47 through 53 on the Permeability Test Report.
- 7. Please indicate on the IPD and Permeability Test Reports which test nos. correspond to the first, second and third lift.
- 8. It appears that an insufficient number of permeability tests were conducted. At 5.57 acres, a minimum of 18 permeability tests should have been conducted. In addition, the figure provided by UES shows that tests were not conducted along the eastern and southern boundary of Cell 2. Please address.
- 9. Please note that future cells must be constructed with side slopes of 6(H):1(V) in accordance with the construction permit.
- 10. UES Photograph Location Plan does not show the location of photos 16 and 17 that were on the CD. Please provide a revised Photograph Location Plan.
- 11. The financial assurance funding must be approved by Fred Wick in Tallahassee. Please notify the Department once the funding has been approved.

You are requested to submit four (4) copies of your response to this letter as one complete package with an original and three copies of all correspondence (with one copy sent to Ms. Susan Pelz). Please contact me at (813) 744-6100, Extension 382, should you have any question.

Sincerely,

Simone Core, P.E. Solid Waste Section Southwest District

cc: Jennifer L. Deal, P.E., [Hartman & Associates, Inc., 201 East Pine Street, Suite 1000, Orlando, FL 32801-2723]

Susan Pelz, P.E., [FDEP - SWD]

Douglas Hyman, P.E., [FDEP-IW/Stormwater]

Fred Wick, [FDEP - Tallahassee]

TETRA TECH, INC.

OFFICERS:

Mark A. Rynning, P.E., M.B.A. Harold E. Schmidt, Jr., P.E., DEE James E. Christopher, P.E. Charles W. Drake, P.G. William D. Musser, P.E., P.H. Lawrence E. Jenkins, P.S.M.

SENIOR ASSOCIATES:

Marco H. Rocca, C.M.C. Roderick K. Cashe, P.E. Douglas P. Dufresne, P.G. Jon D. Fox, P.E. Daniel M. Nelson, P.E.

HARTMAN & ASSOCIATES, INC.

engineers, hydrogeologists, surveyors & management consultants

December 15, 2004

ASSOCIATES:

Les H. Porterfield, P.E.
Andrew T. Woodcock, P.E., M.B.A.
John P. Toomey, P.E.
Jennifer L. Woodall, P.E.
Rafael A. Terrero, P.E., DEE
Jill M. Hudkins, P.E.
Valerie C. Davis, P.G.
Charles M. Shultz, P.E.
Sean M. Parks, AICP, QEP
W. Bruce Lafrenz, P.G.

Sean M. Parks, AJCP, QEP W. Bruce Lafrenz, P.G. Alexis K. Stewart, P.E. Christopher W. Hardin, P.E. James R. Warner, P.E.

HAI #99/0331.619 File 12.0

Via UPS Overnight

Ms. Susan Pelz, P.E. Florida Department of Environmental Protection Southwest District 3804 Coconut Palm Drive Tampa, Florida 33619

Subject:

Cell 2 Certification

Enterprise Recycling & Disposal Facility

Angelo's Aggregate Materials, Ltd.

FDEP Permit Nos. 177982-001-SC, 177982-002-SO

Pasco County, Florida

Dear Ms. Pelz:

On behalf of Angelo's Aggregate Materials, Ltd. (Angelo's), Hartman & Associates, Inc. (HAI) is submitting this certification for Cell 2 at the above referenced facility. Confining layer construction activities were completed on September 29, 2004. The certification form and referenced summary of deviations are included in Appendix A.

Specific Condition 9.c. of the construction permit, in part, states "The maximum hydraulic conductivity below or as part of each cell floor shall be less than 1×10^{-6} cm/sec in a continuous layer of at least 36 inches in thickness, unless otherwise approved in writing by the Department."

Confining Layer Construction

Construction of the confining layer in Cell 2 was performed in concurrence with construction activities for the remainder of Cell 1. Mr. Jeff Rogers, the facility manager and Angelo's Project Manager for the landfill construction, was on-site to oversee all construction and verify that the work was performed to HAI's criteria. This included verification of the use of appropriate stockpiled confining material and compaction equipment, coordination with Foresight Surveyors, Inc. (Foresight) for documentation of the excavation and fill elevations, and coordination with Universal Engineering Sciences (UES) for on-site soil testing and permeability test sample collection. The contractor used a track hoe to excavate the cell. Foresight verified the

201 EAST PINE STREET • SUITE 1000 • ORLANDO, FL 32801-2723 TELEPHONE (407) 839-3955 • FAX (407) 839-3790 • www.consulthai.com

See Board Report sul



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

DEP Form # 62-701.900(2) Form Title Certification of Construction Completion
Effective Date May 19, 1994
DEP Application No.
(Filled by DEP)

Certification of Construction Completion of a Solid Waste Management Facility

DEP Construction Permit No: 177982-0	01-SC County: Pasco	
Name of Project: Enterprise Recycling &	Disposal Facility	
Name of Owner: Angelo's Aggregate Ma	terials, Ltd.	
Name of Engineer: Hartman & Associate	es, Inc.	
Type of Project: Certification for Cell 2		
see attached surveys from Foresight Sur	veyors for areas.	
Cost: Estimate \$ 100,000	Actual \$_150,000	
Site Design: Quantity: 1500 cy/day	_ ton/day Site Acreage: 5.57	Acres
	Approved by DEP: Please see the attached sun	nmary.
· · · · · · · · · · · · · · · · · · ·		
))	
, .	:	
Address and Telephone No. of Site: 41°	111 Enterprise Road, Dade City, FL 33525	
352-567-7676		
Name(s) of Site Supervisor: Jeff Rogers		
Date Site inspection is requested: Facilit	y manager stated FDEP inspected Cell 2 at previo	ous site visit
This is to certify that, with the except	tion of any deviation noted above, the constraint accordance with the plans authorized by Cor	ruction of the
Permit No. <u>177982-001-SC</u>	:Dated: October 5, 2001	
Date: 12/15/04		
	Signature of Professional Engine	eer Hartman & Ass 201 E. Pine St

Page 1 of 1

Florida ... intration 12/15/64

Engineering Business #5814 Jennifer L. Deal R.E.

Orlando, FL 32801

✓ oject No:

80540-001-02 PW #11

Date:

December 7, 2004

Consultants in: Geotechnical Engineering • Environmental Sciences
Construction Materials Testing • Threshold Inspection • Private Provider Inspection

9802 Palm River Road • Tampa, FI 33619-4438 • (813) 740-8506 • Fax (813) 740-8706

REPORT ON
TRIAXIAL PERMEABILITY
AND PERCENT PASSING NO. 200 SIEVER

Client:

Angelo's Aggregate Materials

Attention: Dominic lafate 26400 Sherwood Street Warren, MI 48091

Project:

Dade City Landfill, 5 acre Clay Liner

Tested By:

Greg Kemp

Ordered By:

David Barnett

TEST RESULTS

Test	Date Location Percent		Permeability		
#	Tested		passing No. 200 Sieve	K (cm/s)	K ft/day
50	11/23/04	Cell 2	60.4	7.1 E-09	2.0 E-05

Reviewed By,

Universal Engineering Sciences, Inc. Certificate of Authorization No. 00000549

Mark K. Hardy, P.E. Tampa Branch Manager

Professional Engineer No. 57233

Date: /2/21/04

INSERTED into App E-doc distrible

Technician:

N/A

.oject No.: Report No.:

Date:

80540-001-02

SI #8

December 13, 2004

Consultants in: Geotechnical Engineering • Environmental Sciences

Construction Materials Testing • Threshold Inspection • Private Provider Inspection

9802 Palm River Road • Tampa, FI 33619-4438 • (813) 740-8506 • Fax (813) 740-8706

WEEKLY REPORT ON SITE INSPECTIONS

Client:

Angelo's Aggregate Materials

Attention: Dominic lafate 26400 Sherwood Street Warren, MI 48091

Project:

Dade City Landfill, 5 acre Clay Liner

Scope of

Field Work:

Compaction & Permeability Clay Liner

Inspected By: Vince Simmons

September 15, 2004

Arrived on site, performed eight in place density's on cell 1 lifts 2 and 3, two in place density's on cell 2. Sampled for permeability at eight locations for cell 1 and 2 for cell 2.

September 23, 2004

Arrive on site, performed seven in place density's on cell 2 liner. Seven permeability samples taken at in place density locations.

September 29, 2004

Arrived on site, performed six in place density's on cell 2 liner. Six permeability samples taken and sent to Orlando for testing.

Reviewed By,

Universal Engineering Sciences, Inc. Certificate of Authorization No. 00000549

Mark K. Hardy, P.E.

Tampa Branch Manager

Professional Engineer No. 57233

CC:

Client (1)

Project No.: port No.: 80540-001-02 SI #2

July 12, 2004

₄te: Revised:

12/07/04

WEEKLY REPORT ON SITE INSPECTIONS

Construction Materials Testing • Threshold Inspection • Private Provider Inspection

9802 Palm River Road • Tampa, FI 33619-4438 • (813) 740-8506 • Fax (813) 740-8706

Client:

Angelo's Aggregate Materials Attention: Dominic lafrate 26400 Sherwood Street Warren, MI 48091

Project:

Dade City Landfill, 5 acre Clay Liner

Scope of

Field Work:

Monitor Placement and Compaction of Clay Liner; to Include IPD's and Permeability Sample Pickup

Inspected By: Vince Simmons

July 6, 2004

Monitored track hoe loading end jumps from section #3 of cell and hauling to stockpile area at east end of cell areas outside of construction zone. At end of excavation in section #3 D-7 dozer compacted clay liner at 12" lifts and grading while sheep's foot roller compacted graded clay liner. Three density test performed in section #2 at locations on density test report form. Also 3 permeability samples were taken at one sample per lift at location noted on density report form and sent to Orlando lab for testing. Surveyors not on site today. Area cleared in section #3 measured at 315' long and 73' wide. No test were ready for section #3 today.

July 7, 2004

Monitored track hoe loading two end dumps from section #4 cell and hauling excavates fill to stockpile area at east end of cell areas outside of construction zone. Clay liner fill hauled back in section #4 and graded with day dozer and compacted with sheep's foot roller at 12" lifts. Dimension of section #4 is 315' long and 68' wide. Goodwin Construction stop working at 12:30 p.m. due to rain showers and lightening which lasted about 45 minutes. 3 IPD's and perm samples taken for section #3. At present time about 50% of first lift completed and excavated..

July 8, 2004

Arrived on site Goodwin Brother's Construction working on excavating materials out of section #5 and loading into end dumps. Sheep's front roller and dozer are working in section #4 on first lift. End dumps unloading excavated fill at stockpile areas at east end of construction zone. Took two IPD's and two permeability tests in section #4. Excavation at 70%.

July 9, 2004

Arrived on site and monitored excavation of material in section #6. Materials loaded in two end dumps and transported off site to stockpile area at east end of construction zone. Goodwin Brother's will continue excavating in area before backfilling jeff with Angelo's didn't require me to be on site for excavation remaining area in section #6. Good win Brothers Construction will begin backfilling on 7/12/04. Job excavation at 95%. Left site at 12:00 p.m.

Reviewed By,

Universal Engineering Sciences, Inc. Certificate of Authorization No. 00000549

Mark K. Hardy, P.E.

Tampa Branch Manager

Professional Engineer No. 57233

Date: 12/21/04

CC:

Client (1)

Pelz, Susan

From:

Pelz, Susan

Sent:

Tuesday, January 04, 2005 4:54 PM

To:

Jennifer Deal (E-mail)

Cc:

Core, Simone; Wick, Fred; Morgan, Steve; Petro, Stephanie; Cleary, James

Subject:

Enterprise Certifications

Jennifer,

Please find attached letters with comments concerning the Cell 2 & Cell1/Cell 16 certifications. These letters were mailed today. Please note also that we have received your letter dated January 3, 2005 that indicated that Angelos would begin operation in Cell 2 as of January 4, 2005.

Rule 62-701.630(2)(b), F.A.C., requires that the financial assurance mechanism be fully funded 60 days prior to the receipt of waste. It does not appear that the Department has received proof of financial assurance for Cell 2. Therefore, operation in Cell 2 is **not authorized** at this time. Please be advised that in the event that the permittee elects to operate in Cell 2 prior to the Department's receipt of acceptable proof of funding for the financial assurance, the Department may initiate enforcement action to ensure complaince with the facility's permit and Department rules.

Susan J. Pelz, P.E. Solid Waste Program Manager Southwest District 813-744-6100 x 386 susan.pelz@dep.state.fl.us





0177982-001 0177982-001 C cell 2 RAI EniC RAI3 Enterpri

Tracking:

Recipient

Read

Jennifer Deal (E-mail)

Core, Simone

Read: 1/5/2005 9:32 AM

Wick, Fred

Morgan, Steve

Read: 1/5/2005 9:51 AM

Petro, Stephanie

Read: 1/5/2005 7:05 AM

Cleary, James

Pelz, Susan

From:

Jennifer L. Deal, P.E. [Jennifer.deal@tetratech.com]

Sent:

Tuesday, January 04, 2005 5:12 PM

To:

Pelz, Susan

Subject:

Read: Enterprise Certifications



ATT840394.txt

Your message

To: Jennifer Deal (E-mail)

Cc: Core, Simone; Wick, Fred; Morgan, Steve; Petro, Stephanie;

Cleary, James

Subject: Enterprise Certifications

Sent: 1/4/05 4:53 PM

was read on 1/4/05 5:10 PM.



HARTMAN & ASSOCIATES, INC.

engineers, hydrogeologists, surveyors & management consultants

201 EAST PINE STREET - SUITE 1000 - ORLANDO, FL 32801 TELEPHONE (407) 839-3955 - FAX (407) 481-8447

	1 A	V
Γ	A	Δ

Job Number: 99.0331.013

Date:	01/03/05	·
No. of pages incl. cover page:		2

To:	Susan Pelz, P.E.
	FDEP - Southwest District
Pbone:	(813) 744-6100, ext. 386
Fax:	(813) 744-6125
ce:	
Re:	Angelo's Enterprise Landfill

	Hartman & Associates, Inc.
Phone:	(407) 839-3955 ext. 153
ax:	(407) 839-2066

REMARKS:	Urgent		As Requested	Please com	ment
Susañ,			ì		
Please see the f County, Please	ollowing letter r give me a call if y	egarding disposal ope ou have any questions	erations at the Angel S. Thank you.	o's Enterprise L	andfill in Pasco
Jennifer		•			
				* \$	

The information contained in this facsimile transmission may be legally privileged and is intended for the use of the individual(s) or entity(ies) named above. If you are not the intended recipient, you are hereby notified that any use dissemination, distribution or copying of this facsimile or its information is strictly prohibited. If you have received this facsimile in error, please immediately notify the sender by telephone or facsimile using the above referenced number to arrange for the return of the original documents.

TETRA TECH, INC.

OFFICERS:

Mark A. Rynning, P.E., M.B.A. Harold E. Schnidt, Jr., P.E., DFF Villiam D. Musser RE. P.H. Lawrence F. Jenkins, P.S.M.

SENIOR ASSOCIATES:

Maren H. Rocca, C.M.C. Roderick K. Cashe, P.E. Douglas P. Dufresne, P.G. Jon D. Fox, P.E. Jun D. Fox, P.E. Daniel M. Nelson, P.E.

HARTMAN & ASSOCIATES, INC.

engineers, hydrogeologists, surveyors & management consultants

ASSOCIATES

Les H. Pomerfield, RE, Andrew T. Woodcools, RF, 1970 John P. Toomey, P.E. Jannifer I., Woodall, P.E. Raibel A. Terrero, P.E., DEE Jill M. Huetkins, P.E., Valerie C. Davis, P.G. an M. Parks, AICP, W. Bruce Talrenz, Alexis K. Sigwart

HAI #99.0331.013 Christopher W. Hardin James R. Warner

File 12.0

January 3, 2005

Via Facsimile and UPS Ground

Ms. Susan Pelz, P.E. Florida Department of Environmental Protection Southwest District 3804 Coconut Palm Drive Tampa, Florida 33619

Subject:

Initiation of Disposal Operations in Cell 2 Enterprise Recycling & Disposal Facility

FDEP Permit No. 177982-002-SO

Pasco County, Florida

Dear Ms. Pelz:

At the request of Angelo's Aggregate Materials, Ltd. (Angelo's), Hartman & Associates, Inc. is submitting this notification to inform you that disposal operations in Cell 2 are scheduled to begin on Tuesday, January 4, 2005 at the above facility.

Certification documentation for Cell 2 was submitted to the Department on December 16, 2004, and the cell floor was inspected by Ms. Simone Core on November 1, 2004. In accordance with FAC Rule 62-701.320(9)(a), it is Angelo's intent to begin disposal operations in this area since it has been longer than 14 days since the Department received the submittal, and no Department comments have been received to date.

Please call us if you have any questions.

Very truly yours.

Hartman & Associates, Inc.

mifer L. Deal. Project Manager

N/hydro/jld/larkin/pelz2.doc

Dominic lafrate, Angelo's cc: Jeff Rogers, Angelo's

> 201 EAST FINE STREET • SUITE 1000 • ORLANDO, FL 32801-2723 TELEPHONE (407) 839-3955 • FAX (407) 839-3790 • www.consukhai.com



Department of Environmental Protection

Jeb Bush Governor Southwest District 3804 Coconut Palm Drive Tampa, Florida 33619

Colleen M. Castille Secretary

January 12, 2005

Mr. Dominic Iafrate Angelo's Aggregate Materials, Ltd. 1755 20th Ave. S.E. Largo, Fl. 33771

RE: Enterprise Recycling & Disposal Class III Landfill

Permit Nos.: 177982-001-SC and 177982-002-SO, Pasco County

Certification of Construction Completion,

Cell 16 (temporary stormwater) and remainder of Cell 1

Dear Mr. Iafrate:

On November 1, 2004, an inspection of the above-referenced facility relative to construction completion and adherence to the permit issued by the Florida Department of Environmental Protection (FDEP) was made by Simone Core, P.E. (FDEP) and Enterprise Landfill personnel.

Certification of Construction Completion dated October 14, 2004 (received October 15, 2004), and supplemental information dated November 23, 2004, November 24, 2004, December 16, 2004 and January 5, 2005 (received November 24, 2004 November 29, 2004, December 17, 2004, January 6, 2005 respectively), has been received by the Department.

Based on the information submitted and the site inspection, the Department approves the construction (confining layer) certification for the remainder of Cell 1 and Cell 16. Please be advised that Cell 16 is authorized only for use as a temporary stormwater pond. At the time that Cell 16 is anticipated to be used for disposal operations, additional confining material shall be constructed to bring the cell bottom to design grades and a certification of construction completion shall be submitted for Department approval.

The remainder of Cell 1 shall be operated in accordance with the conditions of Operation permit 177982-002-SO and the Department's certification approval letter dated March 8, 2004 (attached). If you have any questions, you may contact me at (813) 744-6100 ext. 386.

Sincerely,

Susan J. Pelz, P.E. Solid Waste Manager Southwest District

sjp Attachment

Jennifer Deal, P.E., Hartman & Associates, 201 E. Pine St., Ste. 1000, Orlando, Fl. 32801, w/attachment William Kutash, Waste Program Administrator, FDEP Tampa

Fred Wick, FDEP, Tallahassee John Morris, P.G., FDEP Tampa Douglas Hyman, P.E., FDEP Tampa, ERP

"More Protection, Less Process"

Printed on recycled paper.



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

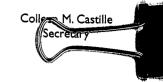
٠.	<i>f</i>
i	DEP Form # 62-701,900(2)
	Form Title Certification of Construction Completion Effective Date May 19, 1994
	Effective Date Willy 19, 1994
	DEP Application No(Filled by DEP)
1	(Filled by DEF)

	on of Construction Completion	of a
50110	d Waste Management Facility	
DEP Construction Permit No: 1779	082-001-SCCounty: _Pa	asco
Name of Project: Enterprise Recycli	ng & Disposal Facility	
Name of Owner: Angelo's Aggregat		Solumes 1 5 2004
Name of Engineer: Hartman & Ass		Mest Out
	ification for Cell 16, and the west and sou	uth areas of Cell 1,
see attached surveys from Foresigh		uth areas of Cell 1,
Cost: Estimate \$ 100,000	Actual \$_150	
Site Design: Quantity: 1500 cy/day	ton/day Site Acreage: 6.7	Acres
1 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	tion Approved by DEP: Please see the	
Address and Telephone No. of Site 352-567-7676	. 41111 Enterprise Road, Dade City, FL	33525
Name(s) of Site Supervisor: Jeff Ro	ogers	
Date Site inspection is requested: O		1.80-07-20-
This is to certify that, with the ex	acception of any deviation noted above tantial accordance with the plans autho	
Permit No. 177982-001-SC	:Dated: October 5, 2001	Hartman & Associates, Inc. 201 E. Pine St., Suite 1000 Orlando, FL 32801 Engineering Business #5814
Date: 10/14/04	Signature of Profess	sional Engineer
	Page 1 of 1	Florida Registration 10/14/04



Department of Environmental Protection

Southwest District 3804 Coconut Palm Drive Tampa, Florida 33619



Jeb Bush Governor

> Mr. Dominic Iafrate Angelo's Aggregate Materials, Ltd. 1755 20th Ave. S.E. Largo, Fl. 33771

RE:

Enterprise Recycling & Disposal Class III Landfill

Permit Nos.: 177982-001-SC and 177982-002-SO, Pasco County Certification of Construction Completion, Cell 2 (5.57 acres)

Dear Mr. Iafrate:

On November 1, 2004, an inspection of the above-referenced facility relative to construction completion and adherence to the permit issued by the Florida Department of Environmental Protection (FDEP) was made by Simone Core, P.E. (FDEP) and Enterprise Landfill personnel.

Certification of Construction Completion dated December 15, 2004 (received December 16, 2004), and supplemental information dated December 15, 2004, December 21, 2004 and January 5, 2005 (received December 16, 2004, December 23, 2004, and January 6, 2005 respectively), has been received by the Department.

Based on the information submitted and the site inspection, the Department approves the construction certification (cell bottom) for Cell 2. Proof of financial assurance was received on January 10, 2005. Cell 2 shall be operated in accordance with the conditions of Operation permit 177982-002-SO. If you have any questions, you may contact me at (813) 744-6100 ext. 386.

Sincerely,

January 12, 2005

Susan J. Pelz, P.E. Solid Waste Manager Southwest District

sjp

Jennifer Deal, P.E., Hartman & Associates, 201 E. Pine St., Ste. 1000, Orlando, Fl. 32801, w/attachment William Kutash, Waste Program Administrator, FDEP Tampa Fred Wick, FDEP, Tallahassee John Morris, P.G., FDEP Tampa Douglas Hyman, P.E., FDEP Tampa, ERP



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

DEP Form #_62-701.90	00(2)
Form Title Certification	of Construction Completion
Effective Date May 19.	
- -	
DEP Application No	
	(Filled by DEP)

Certification of Construction Completion of a Solid Waste Management Facility

DEP Construction Permit No: 177982-001-5	County: Pasco
Name of Project: Enterprise Recycling & Dis	posal Facility
Name of Owner: Angelo's Aggregate Materia	als, Ltd.
Name of Engineer: Hartman & Associates, I	nc.
Type of Project: Certification for Cell 2	
see attached surveys from Foresight Survey	ors for areas.
Cost: Estimate \$ 100,000	Actual \$ 150,000
Site Design: Quantity: 1500 cy/day to	on/day Site Acreage: 5.57 Acres
Deviations from Plans and Application App	proved by DEP: Please see the attached summary.
√ <u>6</u>	<u> </u>
i .	₩
Address and Telephone No. of Site: 41111	Enterprise Road, Dade City, FL 33525
352-567-7676	
Name(s) of Site Supervisor: Jeff Rogers	
	anager stated FDEP inspected Cell 2 at previous site visit
This is to certify that, with the exception	of any deviation noted above, the construction of the coordance with the plans authorized by Construction
Permit No. 177982-001-SC	:Dated: October 5, 2001
Date: 12/15/04	
	Signature of Professional Engineer Hartman & As

Page 1 of 1

ssociates, Inc. 201 E. Pine St., Suite 1000 Orlando, FL 32801

Engineering Business #5814 Jenpiter L. Deal R.E.

Florida Vistration 12/15/64