



ANGELO'S RECYCLED MATERIALS

855 28th Street South
St. Petersburg, Florida 33712
Telephone (727) 581-1544
Fax (727) 586-5676
www.angelosrm.com

January 5, 2017

Mr. Steve Morgan
Solid Waste Section
Florida Department of Environmental Protection - Southwest District
13051 North Telecom Parkway
Temple Terrace, Florida 33637-0926

RE: Enterprise Recycling and Disposal Facility
Cell 7 Construction Completion Report
Angelo's Aggregate Materials, Ltd.
FDEP Permit Nos. 177982-019-SC/T3
WACS No.: 87895
Pasco County, Florida

FLORIDA DEPARTMENT OF
ENVIRONMENTAL PROTECTION
JAN 06 2017
SOUTHWEST DISTRICT
TEMPLE TERRACE

Dear Mr. Morgan,

The Certification of Construction Completion report for Cell 7 I mailed to you yesterday did not include the signed and sealed survey drawings (Attachment B). I realized that this morning when I saw them folded up on my desk. I've enclosed one set of the originals; please let me know if you need more.

Sincerely,

John Arnold, P.E.

January 3, 2017

FLORIDA DEPARTMENT OF
ENVIRONMENTAL PROTECTION
1/11/17 10:55 AM
SOUTHWEST DISTRICT
TEMPLE TERRACE

Mr. Steve Morgan
Solid Waste Section
Florida Department of Environmental Protection - Southwest District
13051 North Telecom Parkway
Temple Terrace, Florida 33637-0926

RE: Enterprise Recycling and Disposal Facility
Cell 7 Construction Completion Report
Angelo's Aggregate Materials, Ltd.
FDEP Permit Nos. 177982-019-SC/T3
WACS No.: 87895
Pasco County, Florida

Dear Mr. Morgan,

This report contains the Certification of Construction Completion (Certification) and Construction Quality Assurance (CQA) data for Cell 7 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 specific condition requirements contained in FDEP Permit No. 177982-019-SC/T3, which include the following:


- a. **The owner or operator shall submit a Certification of Construction Completion, Form 62-701.900(2), signed and sealed by the professional engineer in charge of construction and quality assurance to the Department for approval (Specific Condition 177982-019-SC/T3, Part B, 2.a.1). The Certification of Construction Completion is provided in Attachment A.**
- b. **The permittee shall submit Record Drawings/Documents showing all changes (i.e. additions, deletions, revisions to the plans previously approved by the Department including site grades and elevations). The Record Documents shall include, but not be limited to, as-built elevations of the disposal areas (surveys), details and elevations of limerock encountered, and other details as appropriate (Specific Condition 177982-019-SC/T3, Part B, 2.a.2). The Record Drawings are provided in Attachment B.**
- c. **The owner or operator shall submit a narrative indicating all changes in plans, the cause of the deviations, and certification of the Record Drawings/Documents**

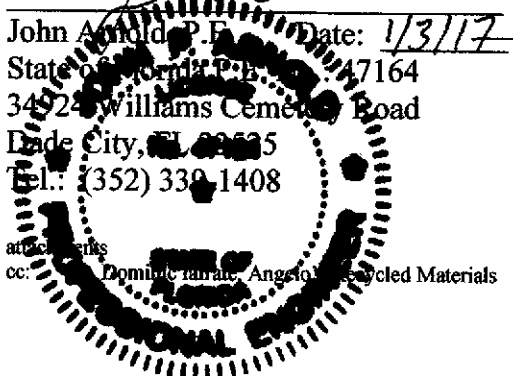
by the Engineer to the Department (Specific Condition 177982-019-SC/T3, Part B, 2.a.3). The narrative report prepared by the professional engineer of record is provided in Attachment C.

- d. **The professional engineer of record shall submit to the Department a final report to verify conformance with the project specifications, including all test results for the development of each cell (Specific Condition 177982-019-SC/T3, Part B, 2.a.4).** These documents including the Construction Quality Assurance Testing performed by Universal Engineering Sciences, Inc. are provided in Attachment D.
- e. **Prepare and submit financial assurance for the facility in accordance with F.A.C. 62-701.630 and Specific Condition 177982-019-SC/T3, Part D.4).** The financial assurance estimates have been updated to include Cell 7 and are provided in Attachment E. An updated letter of credit that includes Cell 7 will be provided to Fred Wick in the Tallahassee office of the FDEP pending approval of the enclosed estimate by the Department.
- f. **Limerock Details and Observations.** Details of limerock encountered as part of Cell 7 Construction is provided in Attachment F
- g. **Groundwater Monitoring Wells and Sampling.** Installation, initial sampling, and reporting of the groundwater monitoring wells associated with Cell 7 construction is being coordinated by our sub-consultant, Mr. Locklear P.G. All of the requested materials will be provided to the Department when available, in accordance with the referenced deadlines and requirements.

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. Date: 1/3/17
State of Florida P.E. No. 47164
34924 Williams Cemetery Road
Dade City, FL 33535
Tel.: (352) 339-1408
cc: Dominic Parale, Angelo Recycled Materials



Attachment A

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



Department of Environmental Protection

Bob Martinez Center
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

Reset Form

Print Form

DEP Form # 62-701.900(2)

Form Title Certification of Construction Completion
of a Solid Waste Management Facility

Effective Date May 19, 1994

Certification of Construction Completion of a Solid Waste Management Facility

DEP Construction Permit No: 177982-019-SC/T3 County: PASCO

Name of Project: ENTERPRISE RECYCLING & DISPOSAL FACILITY

Name of Owner: ANGELO'S AGGREGATE MATERIALS, LTD

Name of Engineer: JOHN P. ARNOLD, P.E.

Type of Project: CELL 7 OF THE CLASS III LANDFILL; CERTIFICATION OF AS-BUILT DRAWINGS
AND CERTIFICATION OF CLAY LINER CONSTRUCTION AND CONFORMANCE TESTING

Cost: Estimate \$250,000 est. Actual \$250,000 est.

Site Design Quantity: 1,500 ton/day Site Acreage: 10.86 (1,690' x 280') +/- Acres

Deviations from Plans and Application Approved by DEP (attach additional pages as needed):

TOP OF CLAY EXCEEDS MINIMUM ELEVATION REQUIRED BY FDEP. CERTIFIED AS-BUILT
DRAWINGS AND SOIL TEST RESULTS SHOW CONSTRUCTION TO BE IN SUBSTANTIAL
ACCORDANCE WITH PERMITTED PLANS.

Address and Telephone No. of Site: 41111 ENTERPRISE RD., DADE CITY, FL 33525

Name(s) of Site Supervisor: MR. ALFREDO MARTINEZ

Date Site inspection is requested: January 18, 2017

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.: 177982-019-SC/T3 Dated: July 9, 2013 (Issued)

Date: January 3, 2017

Signature of Professional Engineer 1/3/17

John P. Arnold

PE 4716

34924 Williams Cemetery Rd
Dade City, FL 33525

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

Attachment B

Record Drawings Simmons & Beall, Inc.

Topographic surveys, signed and sealed by a Florida registered Professional Surveyor and Mapper, of the tops of both the over-excavated subgrade and the finished 3-foot thick clay 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.

As-Built Hard Copies Provided To FDEP (Originals)

□ Simmons & Beall, Inc
Final Clay Base

□ Simmons & Beall, Inc
Final Subgrade

Attachment C

Engineer of Record Narrative Report

Engineer of Record Narrative Report

**Enterprise Recycling and Disposal Facility
Cell 7 Construction**

FDEP Permits No.: 177982-019-SC/T3

WACS No.: 87895

Prepared For:

**Angelo's Aggregate Materials, Ltd.
855 28th Street South
St. Petersburg, FL 33712**

Prepared By:

Engineer of Record: John P. Arnold, P.E.

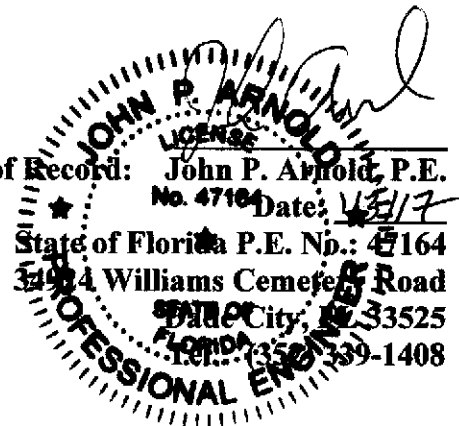
No. 47164 Date: 4/3/17

State of Florida P.E. No.: 47164

3494 Williams Cemetery Road

St. Petersburg, FL 33525

Florida Tel.: (352) 339-1408



Background

This report documents the activities and methods of construction for Cell 7 (approximately 10.86 acres in size) in accordance with FDEP Permit No. 177982-019-SC/T3.

Record Drawings of the tops of both the Final Subgrade Final Clay Base (top of clay barrier layer) were performed by the Surveyor and evaluated by the Engineer of Record (Engineer) for conformance with the Department requirements. The Record Drawings are provided in Attachment B. The elevations on the surveys show that the subgrade was over-excavated by 3-feet and then backfilled with clay to construct a 3' thick clay layer. The clay was placed in three (3) approximately 12-inch thick lifts, with each lift being compacted. Geotechnical soils tests were performed on each completed clay lift to ensure the installed clay layer met the Department requirements.

Universal Engineering Sciences, Inc. (UES) performed all field and laboratory testing in accordance with the Construction Quality Assurance (CQA) requirements. Simmons and Beall Land Surveyors provided layout control throughout construction activities and performed Record Surveys of both the over-excavated (subgrade) surface and top-of-clay surface. Mr. John Arnold, P.E. served as the professional engineer of record and he, or his designee was on-site at all times during construction to monitor construction activities.

Clay Layer Construction

Cell 7 was over-excavated by 3 feet so that the finished 3-ft thick clay layer could be installed. This was primarily accomplished as part of the mining activities associated with this site. The over-excavation was performed using tracked excavating equipment. The Surveyor provided grade stakes and performed field layout services to verify that the excavation was sufficient to meet the 3-foot over-excavation criteria. Excluding southern side slope of Cell 7, clay was placed and compacted in the over-excavated cell area using approximately 12-inch lifts to construct the clay layer. The side slope along the south side of Cell 7 was constructed in accordance with Details 1A and 1B – "Typical Clay Side Slope Construction Detail" on Drawing C-23 Details of the approved plans. Clay was placed in several 12-ft wide sections (approximately 2' thick) and compacted up the side slope, with the excess soils removed after construction to create the 3' thick installed layer. Signed and Sealed drawings documenting the As-Built conditions of the over-excavation (Final Subgrade Survey) and top of the installed clay layer (Final Clay Base Survey) are provided in Attachment B.

Clay from on-site was used to construct the clay layer and the clay berms that extend along the west and north sides of Cell 7. The clay was installed in approximately 12-inch lifts and compacted to within at least 95% of the maximum dry density in accordance with ASTM D698. The clay for each lift was spread with a bull dozer and compacted with multiple passes of loaded off-road (articulating) dump trucks. The in-place density and moisture content for each lift of the clay layer was evaluated by the Universal representative using nuclear-density testing and Speedy Moisture Content devices, respectively. Cell 7 was subdivided by row and column into 12 sections for testing. Each section was less than 1 acre in size, which was the approved testing

frequency used for in-place materials, per lift. Lifts were designated as Lift 1, 2, or 3 (from bottom to top). Columns A and B ran north-south and are 140' wide. Rows 1 thru 6 rows ran east-west and are approximately 282' long. A figure depicting the Cell 7 Test Plan is attached.

The UES field technician collected undisturbed Shelby tube samples for each test section, per completed lift, to verify that the installed permeability met or exceeded the Department approved criteria. Permeability testing was performed on the undisturbed Shelby tube samples in the laboratory using a triaxial-permeameter device. The collected samples were also used to evaluate Atterberg Limits.

Results of the density, permeability, and moisture content tests, including the testing plan key map, are in the Universal Testing Report provided as Attachment D.

Temporary Stormwater Diversion Swale

The temporary stormwater diversion swale to the west of Cell 7 was constructed in accordance with the referenced requirements under the observation of the Engineer of Record. The permit documents do not specify a testing schedule for this temporary feature. Field grade stakes and depth measurements were performed on a daily basis for the construction of this feature. The subgrade soils were excavated by a minimum of 3' below the top of the finished swale. Clay from the same source as the bottom liner was used to construct the temporary stormwater diversion swale; which was placed and compacted in approximately 12-inch thick lifts. The subgrade extending approximately 10' west of the temporary stormwater diversion swale was also over-excavated by 3' and backfilled with the same clay used within Cell 7.

Limerock

Limerock encountered within the area of Cell 7 has been documented in Attachment F. All areas where limerock were encountered have been remediated in accordance with the permit requirements.

Field Inspection, Review, Conformance Assessment, and Major Deviations

John Arnold, P.E., serving as the Engineer of Record, reviewed the UES Testing Report, As-Built (Record) drawings, performed daily field inspections/observations, and prepared and submitted this report and Certification of Construction Completion to the Department for review and approval. In accordance with requirements of Specific Condition 177982-019-SC/T3, Part B, 6.b.:

1. There were no occurrences of sinkholes, soft zones, ravel areas, or unstable conditions associated with the construction of Cell 7.
2. There were no submittal or change orders associated with construction of Cell 7.
3. Weekly progress meeting were informal and minutes were not taken.
4. Daily observation reports and photographs of construction activity are attached to this Engineer of Record Narrative Report.

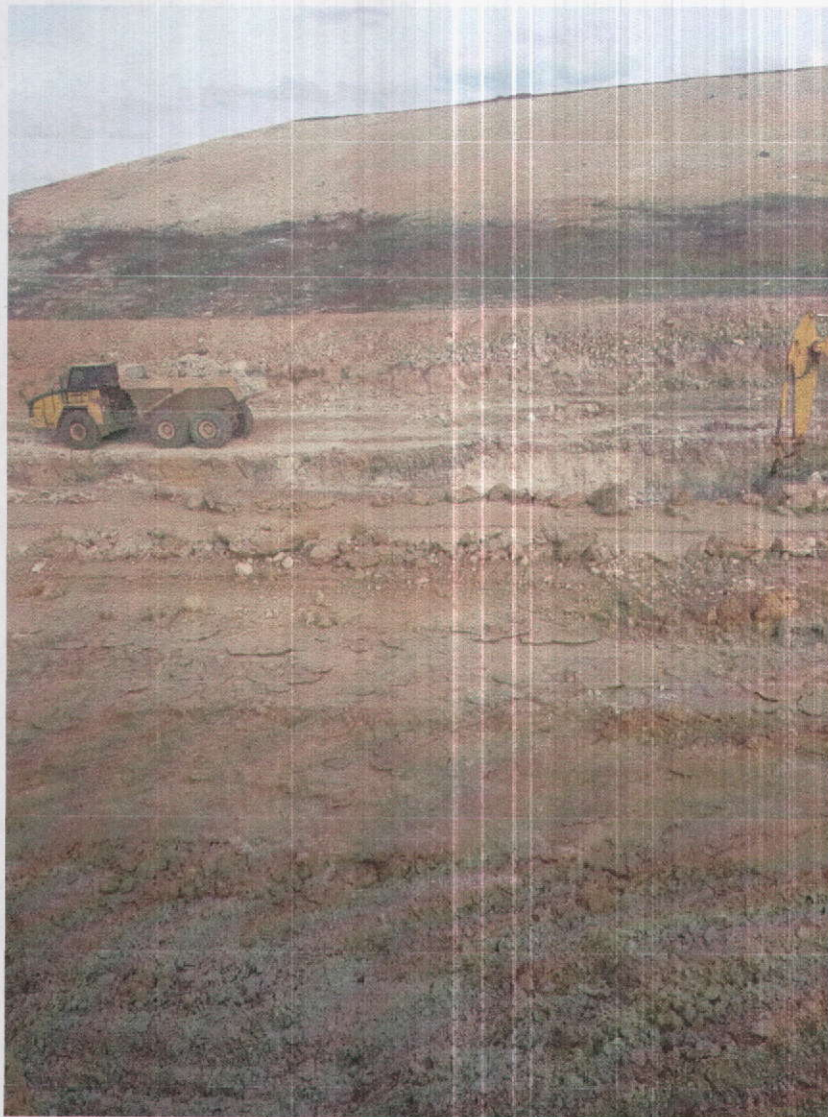
Summary

Review of the UES Testing Report, Record Drawings, and field observations during construction indicate that Cell 7 has been constructed in substantial accordance with the Department approved permit requirements.

December 2015 Photographs

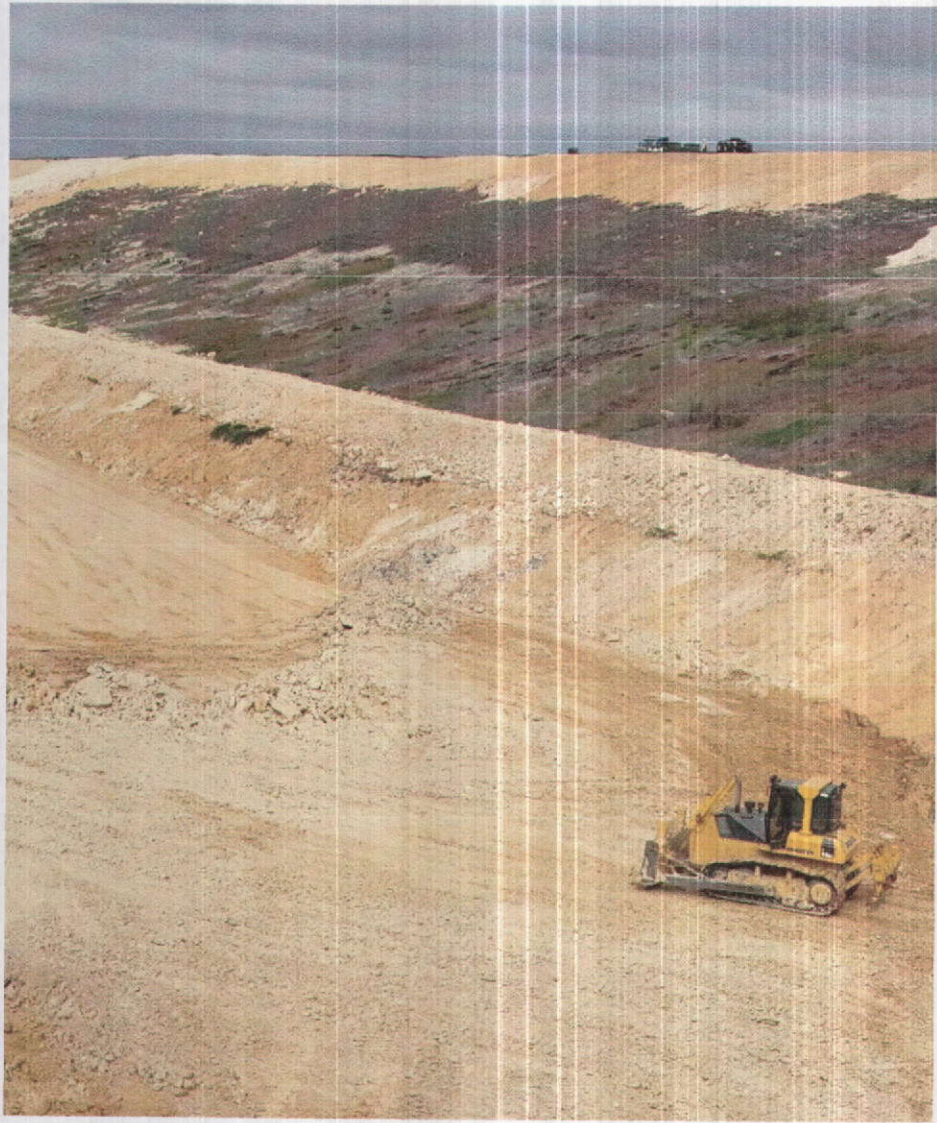






January 2016 Photographs





February 2016 Photographs





March 2016 Photographs



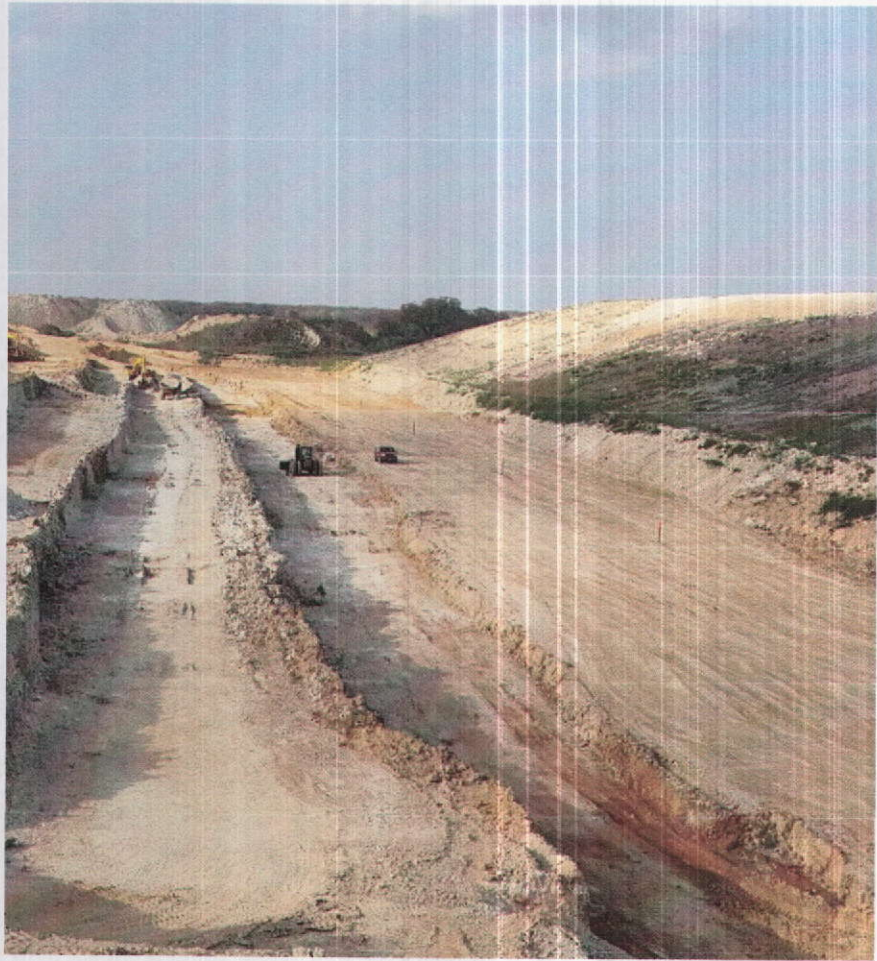


April 2016 Photographs









May 2016 Photographs



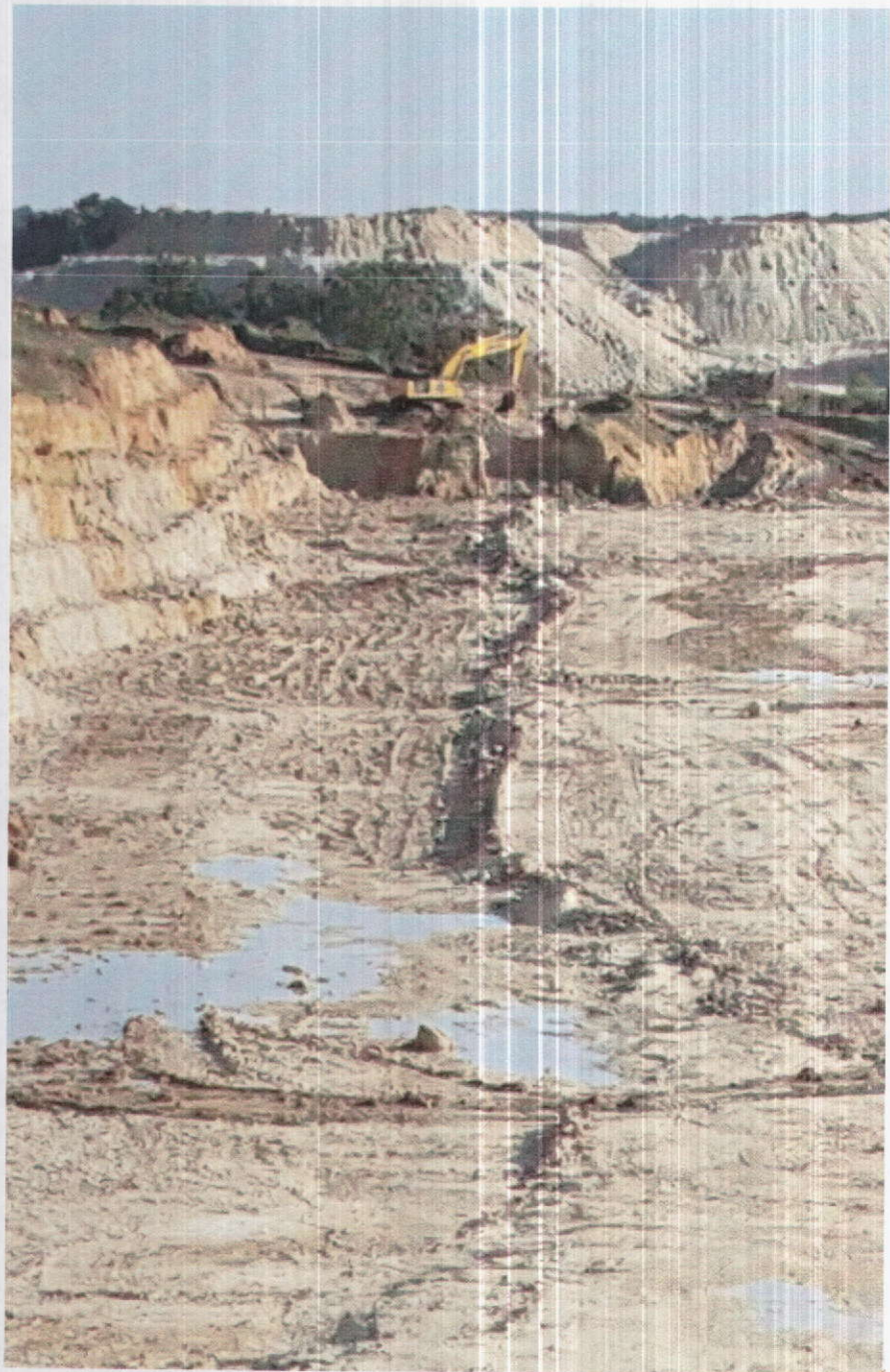






June 2016 Photographs





July 2016 Photographs





Enterprise Recycling and Disposal Facility

Cell 7 Construction

Daily Observation Reports

Client: Aneglo's Aggregate Materials, Ltd

Engineer of Record: John Arnold, P.E. (JPA)

Quality Assurance Testing Laboratory: Universal Engineering Sciences, Inc.

Surveyor: Simmons and Beal Land Surveyors, Inc.

Date	Resident Observer	Temp. (F)	Rainfall	Observations and Comments
11/30/15	JPA	69	0	Begin mass excavation
12/1/15	JPA	71	0	same
12/2/15	JPA	74	0	same
12/3/15	JPA	70	0	same
12/4/15		67	0	same
12/5/15				
12/6/15				
12/7/15	JPA	69	0	same
12/8/15	JPA	69	0	same
12/9/15	JPA	69	0	same
12/10/15	JPA	68	0	same
12/11/15	JPA	68	0	same
12/12/15				
12/13/15				
12/14/15	JPA	76	0	
12/15/15	JPA	72	0	
12/16/15	JPA	74	0.25	Rain delay
12/17/15	JPA	75	0	Rain delay
12/18/15	JPA	66	0.25	Rain delay
12/19/15				
12/20/15				
12/21/15	JPA	67	0	Rain delay
12/22/15	JPA	74	0	Rain delay
12/23/15	JPA	73	0.2	Rain delay
12/24/15	JPA	76	0	No work
12/25/15	JPA			Christmas
12/26/15				
12/27/15				
12/28/15	JPA	76	0	Continue mass excavation westward
12/29/15	JPA	76	0	same
12/30/15	JPA	75	0	same
12/31/15	JPA	76	0.1	No work
1/1/16	JPA	77		New Years Day
1/2/16				
1/3/16				
1/4/16	JPA	53	0.2	To wet for work
1/5/16	JPA	55	0	To wet for work
1/6/16	JPA	57	0	Continue mass excavation westward; start clay lift Section A
1/7/16	JPA	61	0	same
1/8/16	JPA	65	0.2	same

Enterprise Recycling and Disposal Facility

Cell 7 Construction

Daily Observation Reports

Client: Aneglo's Aggregate Materials, Ltd

Engineer of Record: John Arnold, P.E. (JPA)

Quality Assurance Testing Laboratory: Universal Engineering Sciences, Inc.

Surveyor: Simmons and Beal Land Surveyors, Inc.

Date	Resident Observer	Temp. (F)	Rainfall	Observations and Comments
1/9/16				
1/10/16				
1/11/16	JPA	48	0	same
1/12/16	JPA	51	0	same
1/13/16	JPA	51	0	same
1/14/16	JPA	54	0	Continue mass excavation westward
1/15/16	JPA	65	0	Universal on-site sample collection Lift 1 Section A
1/16/16				
1/17/16				
1/18/16	JPA	49	0	Continue westard excavation; start clay lift Section A Lift 2
1/19/16	JPA	47	0	same
1/20/16	JPA	49	0	same
1/21/16	JPA	57	0	same
1/22/16	JPA	61	0	same
1/23/16				
1/24/16				
1/25/16	JPA	51	0	Continue
1/26/16	JPA	63	0	same
1/27/16	JPA	65	2	Rain delay
1/28/16	JPA	63	0.2	Rain delay
1/29/16	JPA	54	1.25	Rain delay
1/30/16				
1/31/16				
2/1/16	JPA	70	0	Rain delay
2/2/16	JPA	71	0	Rain delay
2/3/16	JPA	75	0	Rain delay
2/4/16	JPA	68	0	Excavate higher areas westward
2/5/16	JPA	60	1	Rain delay
2/6/16				
2/7/16				
2/8/16	JPA	56	0	Excavate higher areas westward
2/9/16	JPA	50	0	Continue full excavation can clay placement operations
2/10/16	JPA	50	0	same
2/11/16	JPA	52	0	same
2/12/16	JPA	60	0	same
2/13/16				
2/14/16				
2/15/16	JPA	62	0	same
2/16/16	JPA	65	0.4	Rain delay
2/17/16	JPA	61	0	Rain delay

Enterprise Recycling and Disposal Facility

Cell 7 Construction

Daily Observation Reports

Client: Aneglo's Aggregate Materials, Ltd

Engineer of Record: John Arnold, P.E. (JPA)

Quality Assurance Testing Laboratory: Universal Engineering Sciences, Inc.

Surveyor: Simmons and Beal Land Surveyors, Inc.

Date	Resident Observer	Temp. (F)	Rainfall	Observations and Comments
2/18/16	JPA	59	0	Continue with excavation westward
2/19/16	JPA	60	0	Universal on-site sample collection Lift 2 Section A
2/20/16				
2/21/16				
2/22/16	JPA	67	0	Continue excavation in B section westward in tiers
2/23/16	JPA	70	0.1	same
2/24/16	JPA	70	0	same
2/25/16	JPA	56	0.1	same
2/26/16	JPA	54	0	same
2/27/16				
2/28/16				
2/29/16	JPA	65	0	Continue excavation in Section B; place clay in finished areas of
3/1/16	JPA	66	0	same
3/2/16	JPA	68	0	same
3/3/16	JPA	66	0	same
3/4/16	JPA	64	0	same
3/5/16				
3/6/16				
3/7/16	JPA	63	0	Continue clay placement Section A lift 3; excavation westward
3/8/16	JPA	67	0	same
3/9/16	JPA	71	0	same
3/10/16	JPA	74	0	same
3/11/16	JPA	73	0	same
3/12/16				
3/13/16				
3/14/16	JPA	75	0.1	same
3/15/16	JPA	76	0	same
3/16/16	JPA	75	0	same
3/17/16	JPA	76	0	same
3/18/16	JPA	73	0	same
3/19/16				
3/20/16				
3/21/16	JPA	56	0	Continue clay placement Section A lift 3; excavation westward
3/22/16	JPA	61	0	same
3/23/16	JPA	69	0	same
3/24/16	JPA	69	0	same
3/25/16	JPA	71	0.5	same
3/26/16				
3/27/16				
3/28/16	JPA	74	0.1	Rain delay

Enterprise Recycling and Disposal Facility

Cell 7 Construction

Daily Observation Reports

Client: Aneglo's Aggregate Materials, Ltd

Engineer of Record: John Arnold, P.E. (JPA)

Quality Assurance Testing Laboratory: Universal Engineering Sciences, Inc.

Surveyor: Simmons and Beal Land Surveyors, Inc.

Date	Resident Observer	Temp. (F)	Rainfall	Observations and Comments
3/29/16	JPA	70	0	Rain delay
3/30/16	JPA	71	0.2	Rain delay
3/31/16	JPA	76	0	Rain delay
4/1/16	JPA	77	0	Rain delay
4/2/16				
4/3/16				
4/4/16	JPA	68	0	Work on equipment - No operations for week
4/5/16	JPA	69	0	
4/6/16	JPA	70	0	
4/7/16	JPA	70	0	
4/8/16	JPA	70	0	
4/9/16				
4/10/16				
4/11/16	JPA	69	0	Finish clay placement Lift 3 Section A
4/12/16	JPA	70	0	Excavation Section B
4/13/16	JPA	72	0	Universal sampling Lift 3 Section A
4/14/16	JPA	74	0	Continue excavation Section B
4/15/16	JPA	72	0.2	same
4/16/16				
4/17/16				
4/18/16	JPA	68	0	Excavation Section B
4/19/16	JPA	68	0	same
4/20/16	JPA	70	0	same
4/21/16	JPA	72	0	same
4/22/16	JPA	73	0	same
4/23/16				
4/24/16				
4/25/16	JPA	75	0	Excavation Section B
4/26/16	JPA	75	0	same
4/27/16	JPA	76	0	same
4/28/16	JPA	77	0	same
4/29/16	JPA	78	0	same
4/30/16				
5/1/16				
5/2/16	JPA	79	0	Excavation Section B
5/3/16	JPA	79	0.1	same
5/4/16	JPA	72	1.25	Rain delay
5/5/16	JPA	68	1	Rain delay
5/6/16	JPA	66	0	Rain delay
5/7/16				

Enterprise Recycling and Disposal Facility

Cell 7 Construction

Daily Observation Reports

Client: Aneglo's Aggregate Materials, Ltd

Engineer of Record: John Arnold, P.E. (JPA)

Quality Assurance Testing Laboratory: Universal Engineering Sciences, Inc.

Surveyor: Simmons and Beal Land Surveyors, Inc.

Date	Resident Observer	Temp. (F)	Rainfall	Observations and Comments
5/8/16				
5/9/16	JPA	73	0	Rain delay
5/10/16	JPA	75	0	Excavation Section B; begin clay placement Lift 1 Section B
5/11/16	JPA	77	0	same
5/12/16	JPA	77	0	same
5/13/16	JPA	77	0.1	same
5/14/16				
5/15/16				
5/16/16	JPA	77	0	Excavation Section B and south slope
5/17/16	JPA	78	0.1	same
5/18/16	JPA	77	2.2	Rain delay
5/19/16	JPA	80	0	Rain delay
5/20/16	JPA	78	0	Rain delay
5/21/16				
5/22/16				
5/23/16	JPA	76	0	Continue tiered excavation in Section B; clay placement Lift 1
5/24/16	JPA	78	0	Start clay placement Lift 2 Section B
5/25/16	JPA	77	0	same
5/26/16	JPA	75	0	same
5/27/16	JPA	76	0	same
5/28/16				
5/29/16				
5/30/16	JPA			Memorial Day
5/31/16	JPA	80	0	Universal sample collection Lift 1 Section B
6/1/16	JPA	81	0	Continue tiered excavation in Section B and clay placement Lift
6/2/16	JPA	81	0	same
6/3/16	JPA	83	0	same
6/4/16				
6/5/16				
6/6/16	JPA	75	1.0	Universal sample collection Lift 2 Section B
6/7/16	JPA	88	2.5	Rain delay
6/8/16	JPA	88	0.2	Rain delay
6/9/16	JPA	88	0.1	Clay placement Lift 3 Section B
6/10/16	JPA	89	0.1	same
6/11/16				
6/12/16				
6/13/16	JPA	89	1	Continue tiered excavation and clay placement in Lift 3 Section
6/14/16	JPA	90	0.0	same
6/15/16	JPA	90	0.0	same
6/16/16	JPA	88	0.0	same

Enterprise Recycling and Disposal Facility

Cell 7 Construction

Daily Observation Reports

Client: Aneglo's Aggregate Materials, Ltd

Engineer of Record: John Arnold, P.E. (JPA)

Quality Assurance Testing Laboratory: Universal Engineering Sciences, Inc.

Surveyor: Simmons and Beal Land Surveyors, Inc.

Date	Resident Observer	Temp. (F)	Rainfall	Observations and Comments
6/17/16	JPA	87	0.1	same
6/18/16				
6/19/16				
6/20/16	JPA	86	0.0	Continue tiered excavation and clay placement in Lift 3 Section
6/21/16	JPA	88	0.0	same
6/22/16	JPA	91	0.0	same
6/23/16	JPA	95	0.0	same
6/24/16	JPA	93	0.0	same
6/25/16				
6/26/16				
6/27/16	JPA	89	1	Continue tiered excavtion and clay placement in Lift 3 Section B
6/28/16	JPA	89	0.1	same
6/29/16	JPA	89	0.1	same
6/30/16	JPA	89	2.25	Universal sample collection Lift 3 Section B
7/1/16	JPA	89	0.5	Rain delay
7/2/16				
7/3/16				
7/4/16	JPA			July 4th
7/5/16	JPA	91	0	Rain delay
7/6/16	JPA	93	0	Rain delay
7/7/16	JPA	93	0	Rain delay
7/8/16	JPA	92	0.1	Shoot top of clay grades and set stakes to fine grade
7/9/16				
7/10/16				
7/11/16	JPA	95	0	Fine grading top of clay
7/12/16	JPA	94	0.2	Fine grading top of clay
7/13/16	JPA	93	0.5	Rain delay
7/14/16	JPA	94	0.2	Rain delay
7/15/16	JPA	93	0	Rain delay
7/16/16				
7/17/16				
7/18/16	JPA	92	0	Work substantially complete for cell and berms
7/19/16	JPA	91	0	Work on fine grading and permieter berms/swales
7/20/16	JPA	94	0	Survey Elevations top of Final Clay
7/21/16	JPA	94	0	
7/22/16	JPA	91	0	
7/23/16				
7/24/16				
7/25/16	JPA	92	0.1	No cell work for week
7/26/16	JPA	95	0	

Enterprise Recycling and Disposal Facility

Cell 7 Construction

Daily Observation Reports

Client: Aneglo's Aggregate Materials, Ltd

Engineer of Record: John Arnold, P.E. (JPA)

Quality Assurance Testing Laboratory: Universal Engineering Sciences, Inc.

Surveyor: Simmons and Beal Land Surveyors, Inc.

Date	Resident Observer	Temp. (F)	Rainfall	Observations and Comments
7/27/16	JPA	95	0	
7/28/16	JPA	93	0.25	
7/29/16	JPA	89	0.0	
7/30/16				
7/31/16				
8/1/16	JPA	94	0.1	No cell work for week
8/2/16	JPA	93	0	
8/3/16	JPA	89	0	
8/4/16	JPA	89	0	
8/5/16	JPA	89	0.75	
8/6/16				
8/7/16				
8/8/16	JPA	81	0.3	No cell work for week
8/9/16	JPA	80	0.5	
8/10/16	JPA	92	0	
8/11/16	JPA	90	2.25	
8/12/16	JPA	92	0.2	
8/13/16				
8/14/16				
8/15/16	JPA	91	0.25	No cell work for week
8/16/16	JPA	91	0	
8/17/16	JPA	93	0	
8/18/16	JPA	90	0	
8/19/16	JPA	92	0.75	
8/20/16				
8/21/16				
8/22/16	JPA	92	0	
8/23/16	JPA	93	0	
8/24/16	JPA	88	0.25	
8/25/16	JPA	91	0	Universal sampling of North Berm
8/26/16	JPA	91	0	

Attachment D

**Construction Quality Assurance Test Results
Universal Engineering Science, Inc.**



UNIVERSAL ENGINEERING SCIENCES

Consultants In: Geotechnical Engineering • Environmental Sciences
Geophysical Services • Construction Materials Testing • Threshold Inspection
Building Inspection • Plan Review • Building Code Administration

LOCATIONS:

- Atlanta
- Daytona Beach
- Fort Myers
- Fort Pierce
- Gainesville
- Jacksonville
- Miami
- Ocala
- Orlando (Headquarters)
- Palm Coast
- Panama City
- Pensacola
- Rockledge
- Sarasota
- St. Petersburg
- Tampa
- Titon
- West Palm Beach

November 29, 2016

Angelo's Recycled Materials

41111 Enterprise Road
Dade City, Florida 33525

Attention: John Arnold

Reference: John Arnold
Enterprise Class III Landfill Cell 7
Dade City, Florida
UES Project No. 0810.1500214.0000

Mr. Arnold:

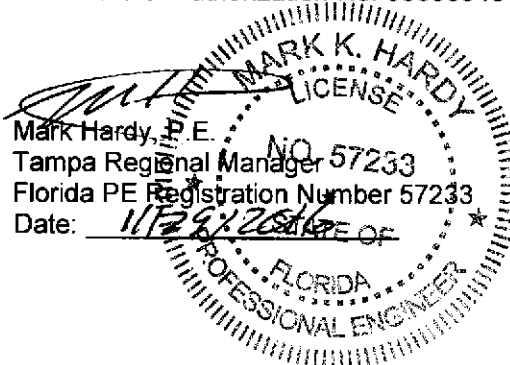
Pursuant to your request, please find attached all related testing reports for the Landfill Cell 7. This letter certifies reports for:

- **Proctor Report:** Page 1-3
- **Permeability Reports:** Pages 1-7
- **Site Density Reports:** Pages 1-6

We trust that these testing reports bound herein, are acceptable to your current needs. However, if you should require additional information please contact us.

We appreciate the opportunity to work with you on this project and look forward to a continued association with Angelo's Recycled Materials. Please do not hesitate to contact us if you should have any questions or if we may further assist you as your plans proceed.

Respectfully submitted,
UNIVERSAL ENGINEERING SCIENCES, INC.
Certificate of Authorization No. 00000549





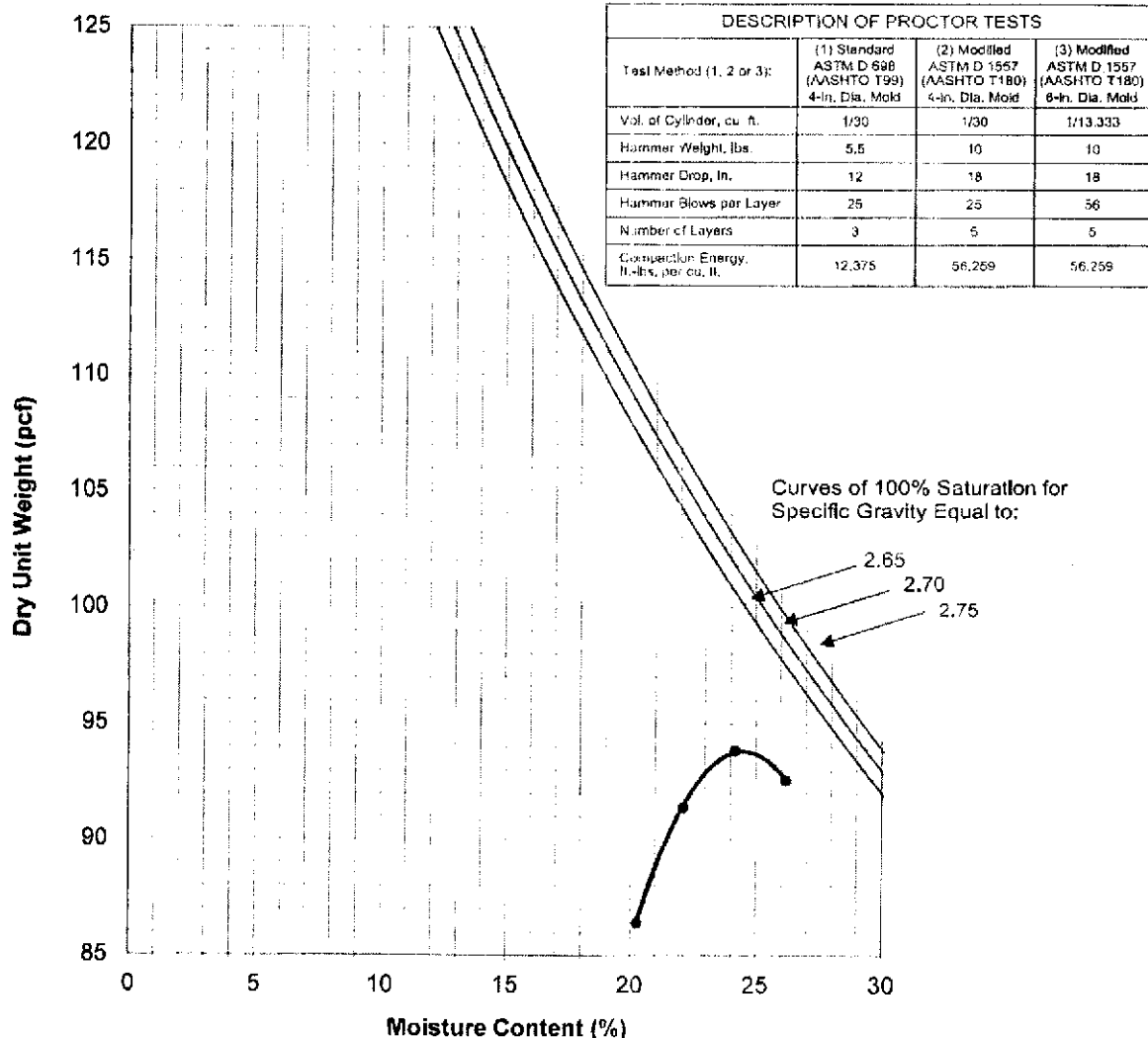
Project No.:
 Work Order No.: 9211184
 Report No.:
 Date: March 28, 2016

Client: ANGELO'S RECYCLED MATERIALS
 Project: ANGELO'S ENTERPRISE CLASS 3/CELL 7
 Sample Location: 3RD LIFT
 Intended Use: 0
 Sample Description: TAN SANDY CLAY
 Sampled By: UES-TAMPA
 Date Sampled: March 14, 2016

Tested By: MS
 Date Tested: March 24, 2016
 Plotted By: Software Package
 Date Plotted: March 28, 2016

SUMMARY OF TEST RESULTS

Lab Number: 16-P352
 Test Method: AASHTO T-99 (2)
 Maximum Dry Density, pcf: 93.8
 Optimum Moisture, %: 24.5
 Passing No. 4 Sieve, %: 100
 Passing No. 200 Sieve, %: 55.6



Sampled according to AASHTO T 002.

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UNIVERSAL ENGINEERING SCIENCES, INC.

Consultants In: Geotechnical Engineering • Environmental Sciences

Construction Materials Testing • Threshold Inspection • Private Provider Inspection

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

Client : Angelo's Recycled Materials
 Project: Enterprise Class III Landfill Cell #7
 Sample
 Date: 5/31/2016
 Location: B-1

Project No.: I10.1500214.0000

Report No.: PR#1

Report Date: 6/05/2016

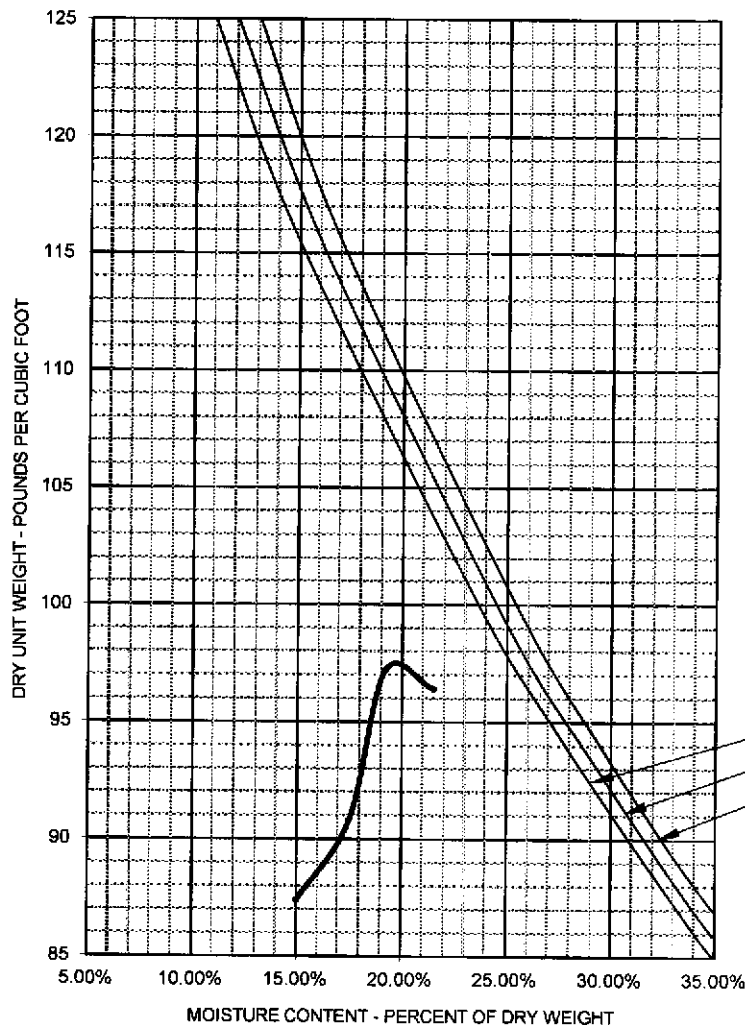
Lab # : 63070

Test Method : D 698

Rammer Type: Manual

Soil Description:

Brown Clayey Sand



Date Tested :	6/5/2016
Maximum Dry Density(pcf)	97.2
Optimum Moisture Content (%)	19.2
Wash 200%	52.7

This form may not be reproduced without the consent of UES, Inc.

This report has been reviewed by the UES Engineer of Record. The intent of this report is to provide testing information in an Expedient manner. A signed / sealed cover page for all tests reports can be provided at the completion of the project and / or at the request of the client.

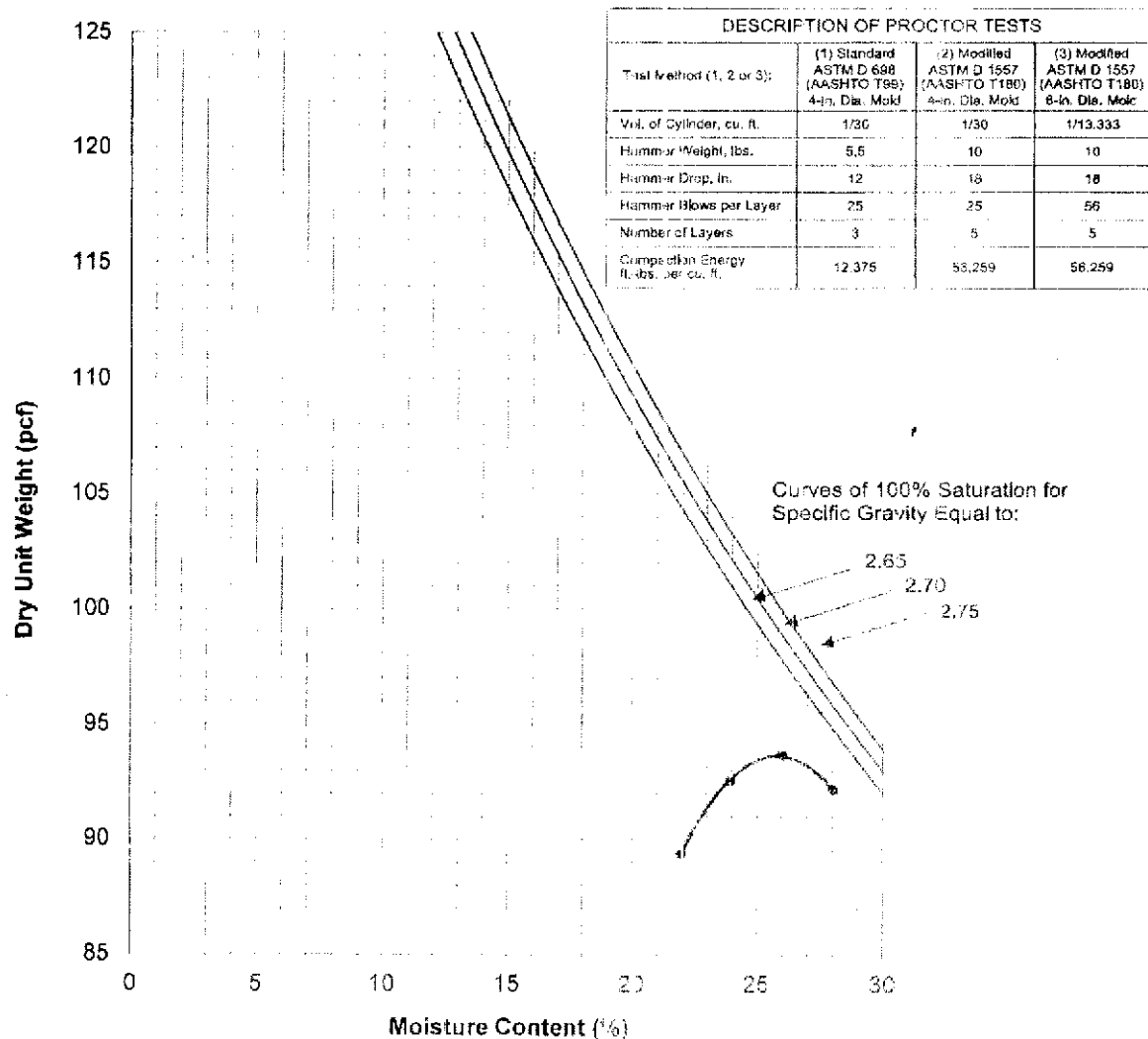


Project No.:
 Work Order No.: 9211184
 Report No.:
 Date: January 20, 2016

Client: ANGELO'S RECYCLED MATERIAL
 Project: ANGELO'S ENTERPRISE CLASS III LANDFILL CELL 6
 Sample Location: TAMPA--(TP-27) 0-10
 Intended Use: Native
 Sample Description: LIGHT TAN CLAY SAND
 Sampled By: CLIENT
 Date Sampled: January 7, 2016
 Tested By: LG
 Date Tested: January 15, 2016
 Plotted By: Software Package
 Date Plotted: January 20, 2016

SUMMARY OF TEST RESULTS

Lab Number: 16-P-048
 Test Method: AASHTO T-99 (2)
 Maximum Dry Density, pc³: 94.0
 Optimum Moisture, %: 26.0
 Passing No. 4 Sieve, %: 100
 Passing No. 200 Sieve, %: 54.3



Sampled according to AASHTO T 002.

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Consultants In: Geotechnical Engineering • Environmental Sciences
Geophysical Services • Construction Materials Testing • Threshold Inspection
Building Inspection • Plan Review • Building Code Administration

Client: Angelo's Materials's

Project: _____ **Enterprise Class 3 Cell 7**

Date Tested: February 24, 2016 Tested By: JO
Date Sampled: 1/15/2016 Sampled By: MA

9802 Palm River Road • Tampa, FL 33619 • (813) 740-8506
www.UniversalEngineering.com

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- Sarasota
- Tampa
- Titton

Project: Enterprise Class 3 Cell 7

Date Tested: March 29, 2016 Tested By: JO
Date Sampled: 2/19/2016 Sampled By: MA

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- Sarasota
- Tampa
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Project: Enterprise Class 3 Cell 7

**REPORT ON TRIAXIAL PERMEABILITY AND PERCENT PASSING NO. 200 SIEVE
(ASTM D-5084 and ASTM C-117) (AASHTO T-11)**

Date Tested: May 16, 2016 Tested By: JO
Date Sampled: 4/13/2016 Sampled By: MA

[illegible]

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- Sarasota
- Tampa
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Project: Enterprise Class 3 Cell 7

Date Tested: June 29, 2016 Tested By: JO
Date Sampled: 5/31/2016 Sampled By: MA

[illegible]

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- Sarasota
- Tampa
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Project: Enterprise Class 3 Cell 7

Date Tested: July 5, 2016 Tested By: JO
Date Sampled: 6/6/2016 Sampled By: MA

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- Pensacola
- Rockledge
- Sarasota
- Tampa
- Tifton

Project: Enterprise Class 3 Cell 7

Date Tested: August 7, 2016 Tested By: JO
Date Sampled: 6/30/2016 Sampled By: MA

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- Pensacola
- Rockledge
- Sarasota
- Tampa
- Tifton

Project: Enterprise Class 3 Cell 7

Date Tested: 19 September 2016 Tested By: JO
Date Sampled: 8/25/2016 Sampled By: MA

9802 Palm River Road • Tampa, FL 33619 • (813) 740-8506
www.UniversalEngineering.com



UNIVERSAL ENGINEERING SCIENCES

Consultants In: Geotechnical Engineering • Environmental Sciences
Geophysical Services • Materials Testing • Threshold Inspection
Building Code Administration, Compliance Inspection & Plan Review

UES Project No: 0810.1500214.0000

Workorder No: 56675-1

Report Date: 1/28/2016

9802 Palm River Road, Tampa, FL 33619 - P: 813.740.8506 - F: 813.740.8706

In-Place Density Test Report

Client: Angelo's Materials
41111 Enterprise Road
Dade City, FL 33525

UES Technician: Mario Arroyo

Date Tested: 01/21/2016

Project: Enterprise Class III Landfill Cell 7
,, Pasco County, FL

Type of Test:

Field: ASTM D-2937 Drive Cylinder Method

Laboratory: ASTM D1557 Modified Proctor

Area Tested: cell 7

Material: clay

Reference Datum: 0 = Bottom of Native

The tests below meet the 95% minimum compaction requirement.

Test No.	Location of Test	Range	Maximum Density (pcf)	Optimum Moisture (%)	Field Dry Density (pcf)	Field Moisture (%)	Soil Compaction (%)	Pass or Fail
1	A1 LI	2 ft	94.0	26	89.9	17.9	96	Pass
2	A2 LI	2 ft	94.0	26	93.5	17.1	99	Pass
3	A3 LI	2 ft	94.0	26	89.4	19.0	95	Pass
4	A4 LI	2 ft	94.0	26	89.5	18.0	95	Pass
5	A5 LI	2 ft	94.0	26	89.9	16.0	96	Pass
6	A6 LI	2 ft	94.0	26	91.7	16.9	98	Pass

To establish a mutual protection to Universal's clients, the Public and ourselves, all reports are submitted as confidential property of our clients and authorization for publication of statements, conclusions or extracts from or regarding Universal's reports is reserved pending our written approval.



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Geophysical Services • Materials Testing • Threshold Inspection
Building Code Administration, Compliance Inspection & Plan Review

UES Project No: 0810.1500214.0000

Workorder No: 57825-1

Report Date: 3/15/2016

9802 Palm River Road, Tampa, FL 33619 - P: 813.740.8506 - F: 813.740.8706

In-Place Density Test Report

Client: Angelo's Materials
41111 Enterprise Road
Dade City, FL 33525

UES Technician: Mario Arroyo

Date Tested: 03/11/2016

Project: Enterprise Class III Landfill Cell 6
, , Pasco County, FL

Area Tested: A LIFT 2

Material: Fill

Reference Datum: 0 = Top of Native

Type of Test:

Field: ASTM D-2937 Drive Cylinder Method

Laboratory: Standard Proctor

The tests below meet the 95% minimum compaction requirement.

Test No.	Location of Test	Range	Maximum Density (pcf)	Optimum Moisture (%)	Field Dry Density (pcf)	Field Moisture (%)	Soil Compaction (%)	Pass or Fail
1	A-1 L2	1-2 ft	94.0	26	94.2	15.5	100	Pass
2	A 2 L2	1-2 ft	94.0	26	96.1	16.3	102	Pass
3	A-3 L2	1-2 ft	94.0	26	94.8	18.8	101	Pass
4	A-4 L2	1-2 ft	94.0	26	92.9	17.3	99	Pass
5	A 5 L2	1-2 ft	94.0	26	96.5	19.2	103	Pass
6	A 6 L2	1-2 ft	94.0	26	91.5	16.2	98	Pass



UNIVERSAL ENGINEERING SCIENCES

Consultants In: Geotechnical Engineering • Environmental Sciences
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Building Code Administration, Compliance Inspection & Plan Review

UES Project No: 0810.1500214.0000

Workorder No: 59498-1

Report Date: 5/12/2016

9802 Palm River Road, Tampa, FL 33619 - P: 813.740.8506 - F: 813.740.8706

In-Place Density Test Report

Client: Angelo's Materials
41111 Enterprise Road
Dade City, FL 33525

UES Technician: Mario Arroyo

Date Tested: 05/10/2016

Project: Enterprise Class III Landfill Cell 7
,, Pasco County, FL

Area Tested: Cell 7

Material: CLAY

Reference Datum: 0 = Bottom of Native

Type of Test:

Field: ASTM D-2937 Drive Cylinder Method

Laboratory: Standard Proctor

The tests below meet the minimum 95% relative soil compaction requirement of Laboratory Proctor maximum dry density.

Test No.	Location of Test	Range	Maximum Density (pcf)	Optimum Moisture (%)	Field Dry Density (pcf)	Field Moisture (%)	Soil Compaction (%)	Pass or Fail
1	A1 L3	1 ft	94.0	26	97.4	16.5	103	Pass
2	A2 L3	1 ft	94.0	26	95.2	17.6	101	Pass
3	A3 L3	1 ft	94.0	26	95.9	16.3	101	Pass
4	A4 L3	1 ft	94.0	26	96.8	18.9	102	Pass
5	A5 L3	1 ft	94.0	26	93.5	16.6	99	Pass
6	A6 L3	1 ft	94.0	26	93.6	18.3	99	Pass

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Geophysical Services • Materials Testing • Threshold Inspection
Building Code Administration, Compliance Inspection & Plan Review

UES Project No: 0810.1500214.0000

Workorder No: 59699-1

Report Date: 6/05/2016

9802 Palm River Road, Tampa, FL 33619 - P: 813.740.8506 - F: 813.740.8706

In-Place Density Test Report

Client: Angelo's Materials
41111 Enterprise Road
Dade City, FL 33525

UES Technician: Mario Arroyo

Date Tested: 05/31/2016

Project: Enterprise Class III Landfill Cell 6
, , Pasco County, FL

Area Tested: B Lift 1

Material: Fill

Reference Datum: 0 = Top of Native

Type of Test:

Field: ASTM D-2937 Drive Cylinder Method

Laboratory: Standard Proctor

The tests below meet the 95% minimum compaction requirement.

Test No.	Location of Test	Range	Maximum Density (pcf)	Optimum Moisture (%)	Field Dry Density (pcf)	Field Moisture (%)	Soil Compaction (%)	Pass or Fail
1	B 1 L1	0-1 ft	93.8	24.5	91.7	18.7	98	Pass
2	B2 L1	0-1 ft	93.8	24.5	92.6	19.3	99	Pass
3	B3 L1	0-1 ft	93.8	24.5	90.2	17.6	96	Pass
4	B4 L1	0-1 ft	93.8	24.5	93.6	20.2	100	Pass
5	B5 L1	0-1 ft	93.8	24.5	91.8	17.8	98	Pass
6	B6 L1	0-1 ft	93.8	24.5	93.2	18.6	99	Pass

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UNIVERSAL ENGINEERING SCIENCES

Consultants In: Geotechnical Engineering • Environmental Sciences
Geophysical Services • Materials Testing • Threshold Inspection
Building Code Administration, Compliance Inspection & Plan Review

UES Project No: 0810.1500214.0000
Workorder No: 60829-1
Report Date: 6/05/2016

9802 Palm River Road, Tampa, FL 33619 - P: 813.740.8506 - F: 813.740.8706

In-Place Density Test Report

Client: Angelo's Materials
41111 Enterprise Road
Dade City, FL 33525

UES Technician: Mario Arroyo

Date Tested: 05/31/2016

Project: Enterprise Class III Landfill Cell 6
, Pasco County, FL

Area Tested: B Lift 2

Material: Fill

Reference Datum: 0 = Top of Native

Type of Test:

Field: ASTM D-2937 Drive Cylinder Method

Laboratory: ASTM D698 Standard Proctor

The tests below meet the 95% minimum compaction requirement.

Test No.	Location of Test	Range	Maximum Density (pcf)	Optimum Moisture (%)	Field Dry Density (pcf)	Field Moisture (%)	Soil Compaction (%)	Pass or Fail
1	B1 L2	0-1 ft	97.2	19.2	94.6	17.8	97	Pass
2	B2 L2	0-1 ft	97.2	19.2	98.1	17.7	101	Pass
3	B3 L2	0-1 ft	97.2	19.2	94.3	18.5	97	Pass
4	B4 L2	0-1 ft	97.2	19.2	99.2	20.1	102	Pass
5	B5 L2	0-1 ft	97.2	19.2	92.6	17.3	95	Pass

To establish a mutual protection to Universal's clients, the Public and ourselves, all reports are submitted as confidential property of our clients and authorization for publication of statements, conclusions or extracts from or regarding Universal's reports is reserved pending our written approval.



UNIVERSAL ENGINEERING SCIENCES

Consultants In: Geotechnical Engineering • Environmental Sciences
Geophysical Services • Materials Testing • Threshold Inspection
Building Code Administration, Compliance Inspection & Plan Review

UES Project No: 0810.1500214.0000

Workorder No: 60855-1

Report Date: 7/07/2016

9802 Palm River Road, Tampa, FL 33619 - P: 813.740.8506 - F: 813.740.8706

In-Place Density Test Report

Client: Angelo's Materials
41111 Enterprise Road
Dade City, FL 33525

UES Technician: Mario Arroyo

Date Tested: 07/05/2016

Project: Enterprise Class III Landfill Cell 6
, , Pasco County, FL

Area Tested: B1 L3

Material: Fill

Reference Datum: 0 = Top of Native

Type of Test:

Field: ASTM D-2937 Drive Cylinder Method

Laboratory: ASTM D698 Standard Proctor

The tests below meet the 95% minimum compaction requirement.

Test No.	Location of Test	Range	Maximum Density (pcf)	Optimum Moisture (%)	Field Dry Density (pcf)	Field Moisture (%)	Soil Compaction (%)	Pass or Fail
1	B1 L3	0-1 ft	97.2	19.2	96.3	17.8	99	Pass
2	B2 L3	0-1 ft	97.2	19.2	96.4	18.6	99	Pass
3	B3 L3	0-1 ft	97.2	19.2	94.8	16.9	98	Pass
4	B4 L3	0-1 ft	97.2	19.2	95.1	18.3	98	Pass
5	B5 L3	0-1 ft	97.2	19.2	93.9	19.4	97	Pass
6	B6 L3	0-1 ft	97.2	19.2	92.5	18.1	95	Pass

Attachment E

Financial Assurance Funding Mechanism and Cost Estimate

A copy of the current and approved Financial Assurance Cost Estimate for Cells 1, 2, 3, 4, 5, 6 and 15 has been inflated on a pro-rata basis to include Cell 7.

**Angelo's Recycled Materials
Enterprise Recycling and Disposal Facility
Cell 7 Addition
Financial Assurance Update Estimate**

A. 2016 Approved Financial Assurance Cells 1-6 and 15

Cells 1-6 and 15 =	60.9 acre
2016 Approved Closure and Long-Term Care Estimate = \$	5,659,863.77
Cells 1-6 and 15 Financial Assurance Cost per Acre = \$	92,937.01 /acre

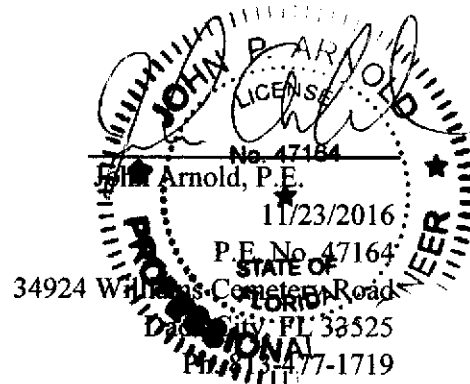
B. Pro-Rata Cell 7 Financial Assurance Cost Estimate

Cell 7 (1,690' x 280') =	10.86 acre
Cell 7 Closure and Long-Term Care Estimate = \$	1,009,295.90

C. Updated 2016 Financial Assurance Estimate Including Cell 7

2016 Approved Closure and Long-Term Care Estimate = \$	5,659,863.77
Cell 7 Closure and Long-Term Care Estimate = \$	1,009,295.90

Updated Total = \$	6,669,159.67
--------------------	--------------





Florida Department of Environmental Protection

Bob Martinez Center
2600 Blair Stone Road MS 4548
Tallahassee, Florida 32399-2400

Rick Scott
Governor

Carlos Lopez-Cantera
Lt. Governor

Jonathan P. Steverson
Secretary

March 4, 2016

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

Re: WACS 87895 – Enterprise Class III Landfill (and waste tire facility)

Dear Mr. Iafrate:

I reviewed the documentation submitted to demonstrate financial assurance for the above referenced facility and find it is in order. Comerica Bank amendment number 18, dated February 18, 2016, increases the aggregate amount of letter of credit number 586961-04 to \$5,659,865.77. This covers the Department approved closure cost estimates totaling \$5,659,863.77, dated January 19, 2016. In addition, your Comerica Bank & Trust, National Association standby trust fund agreement, account number 3085000936, remains acceptable. Therefore, Enterprise Class III Landfill is in compliance with the financial assurance requirements of 40 CFR Part 264, Subpart H, as adopted by reference in Rule 62-701.630, Florida Administrative Code, at this time.

Please contact me at (850) 245-8743 if you have any questions.

Sincerely,

A handwritten signature in black ink, appearing to read "Tor JM Bejnar".

Tor JM Bejnar
Environmental Specialist
Solid Waste Financial Assurance

cc: Solid Waste Financial Coordinator, DEP/Tallahassee
Steve Morgan, DEP/Southwest District



Florida Department of Environmental Protection

Bob Martinez Center
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

DEP Form # 62-701.900(28), F.A.C.

Form Title: Closure Cost Estimating Form
For Solid Waste Facilities

Effective Date: January 6, 2010

Incorporated in Rule 62-701.630(3), F.A.C.

CLOSURE COST ESTIMATING FORM FOR SOLID WASTE FACILITIES

Date of DEP Approval: _____

I. GENERAL INFORMATION:

Facility Name: Angelo's Recycled Materials - Enterprise Rec. & Disposal CLIII WACS ID: 87895
 Permit Application or Consent Order No.: 177982-020-SO/T3 303741-002-W Expiration Date: 5/08/2018
 Facility Address: 41111 Enterprise Road, Dade City, FL 33525
 Permittee or Owner/Operator: Angelo's Aggregate Materials, LTD
 Mailing Address: 855 28th ST S, St. Petersburg, FL 33712

Latitude: 28° 19' 53" Longitude: 82° 08' 06"
 Coordinate Method: State Plane West Datum: NGVD 29
 Collected by: John Arnold Company/Affiliation: Project Manager

Solid Waste Disposal Units Included in Estimate:

Phase / Cell	Acres	Date Unit Began Accepting Waste	Active Life of Unit From Date of Initial Receipt of Waste	If active: Remaining life of unit	If closed: Date last waste received	If closed: Official date of closing
Cells 1-7 & 15	60.9	2004	2023 (incl. Cell 7)	10 (incl. Cell 7)		

Total disposal unit acreage included in this estimate: Closure: 60.9 Long-Term Care: 30

Facility type: ☐ Class I ☒ Class III ☐ C&D Debris Disposal
 (Check all that apply) ☒ Other: WTPF 303741-002-WT/02

II. TYPE OF FINANCIAL ASSURANCE DOCUMENT (Check type)

- ☒ Letter of Credit* ☐ Insurance Certificate ☐ Escrow Account
☐ Performance Bond* ☐ Financial Test ☐ Form 29 (FA Deferral)
☐ Guarantee Bond* ☐ Trust Fund Agreement

* - Indicates mechanisms that require the use of a Standby Trust Fund Agreement

Northwest District
160 Government Center
Pensacola, FL 32502-5794
850-896-8360

Northeast District
7825 Baymeadows Way, Ste. B200
Jacksonville, FL 32256-7590
904-807-3300

Central District
3319 Maguire Blvd., Ste. 232
Orlando, FL 32803-3767
407-394-7555

Southwest District
13051 N. Telecom Pkwy.
Tempe Terrace, FL 33637
813-632-7600

South District
2295 Victoria Ave., Ste. 364
Fort Myers, FL 33901-3881
239-332-6975

Southeast District
400 N. Congress Ave., Ste. 200
West Palm Beach, FL 33401
561-681-6600

III. ESTIMATE ADJUSTMENT

40 CFR Part 264 Subpart H as adopted by reference in Rule 62-701.630, Florida Administrative Code, (F.A.C.) sets forth the method of annual cost estimate adjustment. Cost estimates may be adjusted by using an inflation factor or by recalculating the maximum costs of closure in current dollars. Select one of the methods of cost estimate adjustment below.

☒ (a) Inflation Factor Adjustment

☐ (b) Recalculated or New Cost Estimates

Inflation adjustment using an inflation factor may only be made when a Department approved closure cost estimate exists and no changes have occurred in the facility operation which would necessitate modification to the closure plan. The inflation factor is derived from the most recent Implicit Price Deflator for Gross National Product published by the U.S. Department of Commerce in its survey of Current Business. The inflation factor is the result of dividing the latest published annual Deflatory by the Deflator for the previous year. The inflation factor may also be obtained from the Solid Waste website www.dep.state.fl.us/waste/categories/swfr or call the Financial Coordinator at (850) 245-8706.

This adjustment is based on the Department approved closing cost estimate dated:

1/19/15

Latest Department Approved
Closing Cost Estimate:

Current Year Inflation
Factor, e.g. 1.02

Inflation Adjusted Closing
Cost Estimate:

\$3,348,813.70

x

1.014

=

\$3,395,697.09

This adjustment is based on the Department approved long-term care cost estimate dated:

Latest Department Approved
Annual Long-Term Care
Cost Estimate:

Current Year Inflation
Factor, e.g. 1.02

Inflation Adjusted Annual
Long-Term Care Cost
Estimate:

\$74,430.20

x

1.014

=

\$75,472.22

Number of Years of Long Term Care Remaining:

x

30

Inflation Adjusted Long-Term Care Cost Estimate:

=

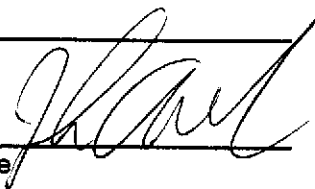
\$2,264,166.68

Signature by: ☒ Owner/Operator

☐ Engineer

(check what applies)

Signature



41111 Enterprise Road

Address

John Arnold, Project Manager

Name & Title

Dade City, FL 33525

City, State, Zip Code

1/19/16

Date

John.Phillip.Arnold@gmail.com

E-Mail Address

813-477-1719

Telephone Number

Attachment F

Limerock Details and Elevation Observations

Limerock Details and Log

Details and elevations of limerock observed during the construction of Cell 7 are based on the daily field observations performed by John Arnold, P.E. This includes the limerock that was observed west of Cell 6, as reported in the Cell 6 completion report submitted to the FDEP. The locations of limerock encountered during the mining and construction of Cell 7 are shown on Figure 1. The lateral and vertical extents of the limerock are based on relative observations and field measurements made from construction grade stakes installed using monuments set by the land surveyor, Simmons and Beall, Inc. On a weekly basis approximately 10 to 20 grade control stakes were installed in the work area to facilitate construction and observation activities. Elevations refer to NGVD '29 datum.

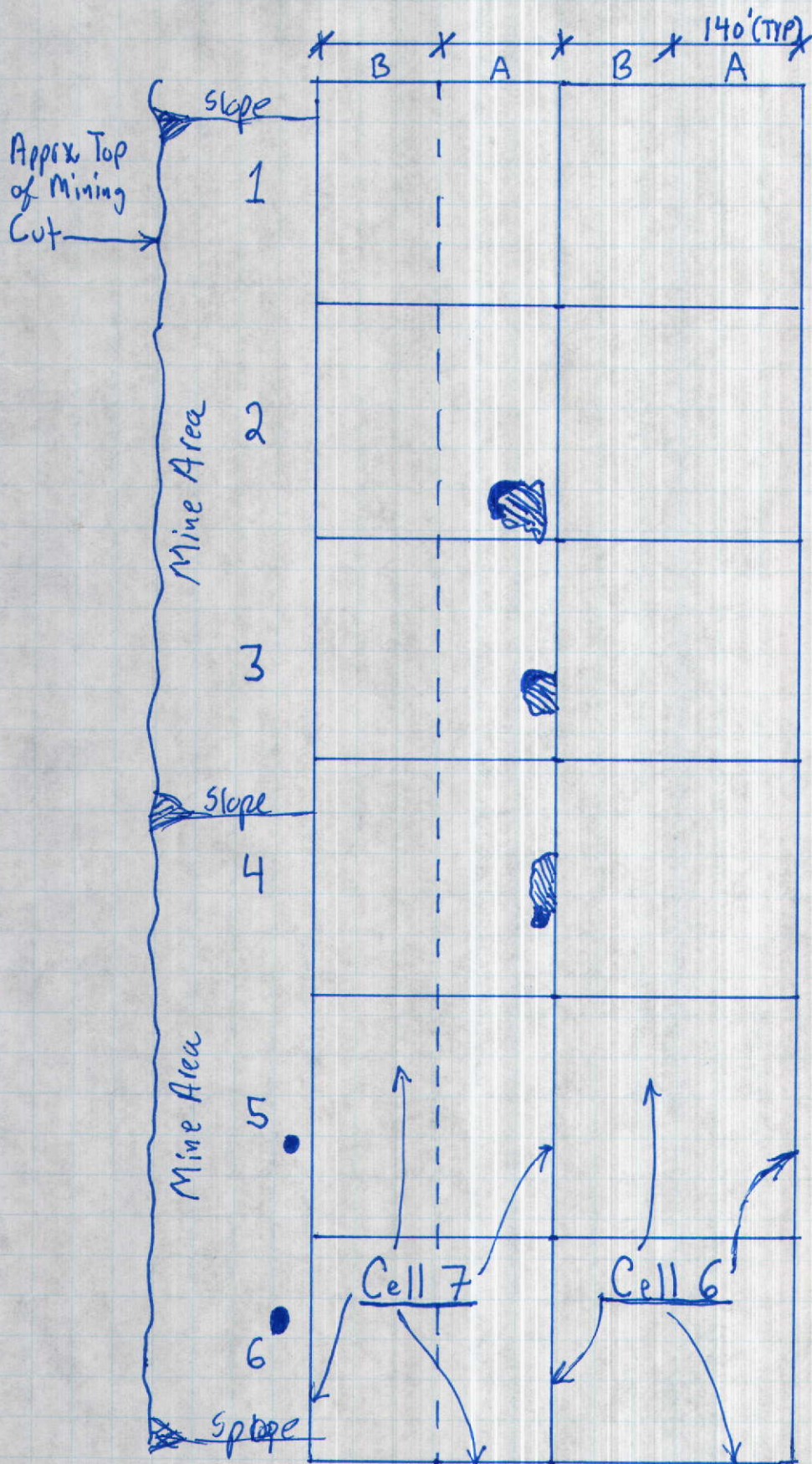
Limerock in Cell 7 A-2 was encountered at latitude $28^{\circ} 19' 56''$ N, longitude $82^{\circ} 08' 06.8''$ W. As excavation of the overburden progressed westward, the extent of the limerock was revealed to be approximately 100' long by 50' wide. The limerock was firm to hard with a clay mantel. No soft zones or voids within the limerock were observed. The limerock pinnacle/outcrop maximum elevation was 112' NGVD (+/-) and minimum elevation of approximately 81' NGVD (+/-). Limerock exposed at this location was over-excavated by 3' to construct the 3' thick clay barrier layer.

Limerock in Cell 7 A-3 was encountered at latitude $28^{\circ} 19' 55''$ N, longitude $82^{\circ} 08' 09.43''$ W. As excavation of the overburden progressed westward, the extent of the limerock was revealed to be approximately 75' long by 30' wide. The limerock was firm to hard with a clay mantel. No soft zones or voids within the limerock were observed. The limerock pinnacle/outcrop maximum elevation was 110' NGVD (+/-) and minimum elevation of approximately 81' NGVD (+/-). Limerock exposed at this location was over-excavated by 3' to construct the 3' thick clay barrier layer.

Limerock in Cell 7 A-4 was encountered at latitude $28^{\circ} 19' 51''$ N, longitude $82^{\circ} 08' 09.19''$ W. As excavation of the overburden progressed westward, the extent of the limerock was revealed to be approximately 110' long by 30' wide. The limerock was firm to hard with a clay mantel. No soft zones or voids within the limerock were observed. The limerock pinnacle/outcrop maximum elevation was 115' NGVD (+/-) and minimum elevation of approximately 81' NGVD (+/-). Limerock exposed at this location was over-excavated by 3' to construct the 3' thick clay barrier layer.

Limerock was encountered west of Cell 7 B-5, in the mine area at latitude of $28^{\circ} 19' 49''$ N, longitude $82^{\circ} 08' 09.29''$ W. This limerock approximately 15' x 15', was mined out between approximate elevations 94' to 105' NGVD, and was capped with approximately 3' of clay. This location is not within the landfill footprint, but was capped with clay to block the potential for surface water intrusion into the limerock.

Limerock was encountered west of Cell 7 B-6, in the mine area at latitude of $28^{\circ} 19' 46''$ N, longitude $82^{\circ} 08' 09.30''$ W. This limerock approximately 20' x 18', was mined out between approximate elevations 96' to 110' NGVD, and was capped with approximately 3' of clay. This location is not within the landfill footprint, but was capped with clay to block the potential for surface water intrusion into the limerock.



N
1" = 200'

LEGEND

Limerock Found During Cell 6 Construction. Refer to Cell 6 CQA Report and Related RAIS.

Limerock Found During Mining West of Cell 7

Notes

1. All Limerock areas have been over-excavated by 3' min and backfilled with clay (3' min).

Figure 1

Cell 7 Limerock Observation
Enterprise Class III Land Fill