

FIELD DENSITY TESTING REPORT

Report Number: 02161145.0008
Service Date: 06/14/16
Report Date: 06/24/16

Terracon

13910 W 96th Ter
Lenexa, KS 66215-1228
913-492-7777

Client

Integral Construction Services
Attn: Ron Williams
303 Southwest Market
Lee's Summit, MO 64063

Project

HT Solutions Building
1501 SE Hamblen Road
Lee's Summit, MO

Project Number: 02161145

Services Requested By: Ron Williams with Integral Construction Services

Earthwork Contractor: Mikes Site Work

Observed Location(s): Building Pad

Fill Type Placed: Low Volume Change Fill

Proctor No.(s): .0009

Fill Description: Limestone Screenings

Source Of Fill: Imported from Quality Rock

Fill Placement: The fill was observed to be placed in approximately 8-inch thick lifts. Compactive efforts were applied with a vibratory sheepsfoot roller. The fill placed appeared firm and stable during the application of compactive efforts.

Field Density Test Results: Field density tests were conducted on the fill placed today utilizing the nuclear method (ASTM D6938). 3 field density tests were performed. The test results met the minimum specified 95% compaction requirement as compared to ASTM D698. Refer to the attached Field Density Test Summary for individual test data.

Reported To: Ron Williams with Integral Construction Services

Services:

Terracon Rep.: Carl W. Creamer
Reported To: Ron Williams with Integral Construction
Contractor: Integral Construction Services

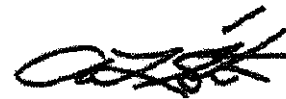
Report Distribution:

(1) Integral Construction Services,
smo@sbcglobal.net
inSite Group, scott@insitegroup.net

(1) Catalent Pharma Solutions,
charles.hasek@catalent.com
(1) Purdum Construction,
aburks@purdco.com
(1) Purdum Construction,
sgroom@purdco.com

(1) Purdum Construction,
jalexander@purdco.com
(1) Wallace Engineering Structural &
Civil Consultants,

Reviewed By:



Andrew Smith

The tests were performed in general accordance with applicable ASTM, AASHTO, or DOT test methods. This report is exclusively for the use of the client indicated above and shall not be reproduced except in full without the written consent of our company. Test results transmitted herein are only applicable to the actual samples tested at the location(s) referenced and are not necessarily indicative of the properties of other apparently similar or identical materials.

FIELD DENSITY TEST REPORT

Report Number: 02161145.0008

Service Date: 06/14/16

Report Date: 06/24/16

Task:

Terracon

13910 W 96th Ter
Lenexa, KS 66215-1228
913-492-7777

Client

Integral Construction Services
Attn: Ron Williams
303 Southwest Market
Lee's Summit, MO 64063

Project

HT Solutions Building
1501 SE Hamblen Road
Lee's Summit, MO

Project Number: 02161145

Material Information

Mat. No.	Proctor Ref. No.	Classification and Description	Laboratory Test Method	Lab Test Data		Project Requirements	
				Optimum Water Content (%)	Max. Lab Density (pcf)	Water Content (%)	Compaction (%)
1	02161145.0009	Crushed Limestone Screenings, gray	ASTM D698	8.6	130.1		Min 95

Field Test Data

Test No.	Test Location	Lift / Elev.	Mat. No.	Probe Depth (in)	Wet Density (pcf)	Water Content (pcf)	Water Content (%)	Dry Density (pcf)	Percent Compaction (%)
Building Pad: Low Volume Change Fill									
1	55' south, 30' west of NE corner	-0.7'	1	12	137.0	5.9	4.5	131.1	100+
2	40' north, 45' east of SW corner	-0.7'	1	12	142.2	7.3	5.4	134.9	100+
3	70' north, 10' east of SW corner	-0.7'	1	12	141.9	6.8	5.0	135.1	100+

Sum: Floor Slab Subgrade Elevation

Serial No: 36256

Std. Cnt. M: 662

Std. Cnt. D: 2258

Comments: Test and/or retest results on this report meet project requirements as noted above.

Services:

Terracon Rep.: Carl W. Creamer

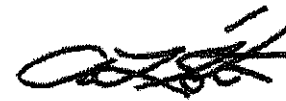
Reported To: Ron Williams with Integral Construction Services

Contractor: Integral Construction Services

Report Distribution:

- (1) Integral Construction Services, icstsmo@sbcglobal.net
- (1) Catalent Pharma Solutions, charles.hasek@catalent.com
- (1) InSite Group, scott@insitegroup.net
- (1) Purdum Construction, aburks@purdco.com
- (1) Purdum Construction, jallexander@purdco.com
- (1) Purdum Construction, sgroom@purdco.com
- (1) Wallace Engineering Structural & Civil Consultants, jgranich@wallacesc.com

Reviewed By:



Andrew Smith

Test Methods: ASTM D6938

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CONCRETE COMPRESSIVE STRENGTH TEST REPORT

Report Number: 02161145.0020
Service Date: 08/16/16
Report Date: 08/23/16 Revision 1 - 7-day results
Task: 09 - Structural Concrete Testing

Terracon

13910 W 96th Ter
Lenexa, KS 66215-1228
913-492-7777

Client

Integral Construction Services
Attn: Ron Williams
303 Southwest Market
Lee's Summit, MO 64063

Project

HT Solutions Building
1501 SE Hamblen Road
Lee's Summit, MO

Project Number: 02161145

Material Information

Specified Strength: 4,000 psi @ 28 days
Mix ID: P6HC564V449
Supplier: Geiger
Batch Time: 0334 Plant: Lee's Summit, MO
Truck No.: 364 Ticket No.: 814766

Sample Information

Sample Date: 08/16/16 Sample Time: 0415
Sampled By: Jack Kollars - 4599
Weather Conditions: Clear
Accumulative Yards: 10 Batch Size (cy): 10
Placement Method: Pump
Water Added Before (gal):
Water Added After (gal):
Sample Location: Northwest Corner.
Placement Location: Floor Slab.

Field Test Data

Test	Result	Specification
Slump (in):	4	Max 6
Air Content (%):	1.5	Max 3
Concrete Temp. (F):	76	60 - 90
Ambient Temp. (F):	66	
Plastic Unit Wt. (pcf):		
Yield (Cu. Yds.):		

Laboratory Test Data

Set No.	Specimen ID	Avg Diam. (in)	Area (sq in)	Date Received	Specimen Weight (lbs)	Date Tested	Age at Test (days)	Maximum Load (lbs)	Compressive Strength (psi)	Fracture Type
1	1	4.00	12.57	08/19/16	8.78	08/23/16	7	69,760	5,550	5
1	2	4.01	12.63	08/19/16	8.78	09/13/16	28			
1	3	4.01	12.63	08/19/16	8.74	09/13/16	28			
1	4	4.02	12.69	08/19/16	8.78	09/13/16	28			
1	5			08/19/16	8.74		Hold			

Comments: Not tested for plastic unit weight.

Samples Made By: Terracon

Services: Sample fresh concrete at the placement locations, perform required field tests and cast compressive strength samples. Standard test methods include ASTM: C31, C39, C138, C143, C172, C173 or C231, C1064 and C1231.

Terracon Rep.: Jack Kollars

Reported To: Ron Williams with Integral Construction Services

Contractor:

Report Distribution:

(1) Integral Construction Services,
icslsmo@sbcglobal.net

(1) Geiger Ready Mix, Chad English

(1) Geiger Ready Mix, Rusty Owings

Test Methods: ASTM C 31, ASTM C39, ASTM C138, ASTM C143, ASTM C172, ASTM C231, ASTM C1064, ASTM C1231

The tests were performed in general accordance with applicable ASTM, AASHTO, or DOT test methods. This report is exclusively for the use of the client indicated above and shall not be reproduced except in full without the written consent of our company. Test results transmitted herein are only applicable to the actual samples tested at the location(s) referenced and are not necessarily indicative of the properties of other apparently similar or identical materials.

CONCRETE COMPRESSIVE STRENGTH TEST REPORT

Terracon

Report Number: 02161145.0020
Service Date: 08/16/16
Report Date: 08/23/16 Revision 1 - 7-day results
Task: 09 - Structural Concrete Testing

13910 W 96th Ter
Lenexa, KS 66215-1228
913-492-7777

Client

Integral Construction Services
Attn: Ron Williams
303 Southwest Market
Lee's Summit, MO 64063

Project

HT Solutions Building
1501 SE Hamblen Road
Lee's Summit, MO

Project Number: 02161145

Material Information

Specified Strength: 4,000 psi @ 28 days
Mix ID: P6HC564V449
Supplier: Geiger
Batch Time: 0433 Plant: Lee's Summit, MO
Truck No.: 364 Ticket No.: 814776

Sample Information

Sample Date: 08/16/16 Sample Time: 0515
Sampled By: Jack Kollars - 4599
Weather Conditions: Clear
Accumulative Yards: 100 Batch Size (cy): 10
Placement Method: Pump
Water Added Before (gal):
Water Added After (gal):
Sample Location: West Edge, 3rd Column From
Northwest Corner.
Placement Location: Floor Slab.

Field Test Data

Test	Result	Specification
Slump (in):	5 1/2	Max 6
Air Content (%):	1.5	Max 3
Concrete Temp. (F):	78	60 - 90
Ambient Temp. (F):	66	
Plastic Unit Wt. (pcf):		
Yield (Cu. Yds.):		

Laboratory Test Data

Set No.	Specimen ID	Avg Diam. (in)	Area (sq in)	Date Received	Specimen Weight (lbs)	Date Tested	Age at Test (days)	Maximum Load (lbs)	Compressive Strength (psi)	Fracture Type
2	1	4.00	12.57	08/19/16	8.76	08/23/16	7	66,060	5,260	5
2	2	4.01	12.63	08/19/16	8.72	09/13/16	28			
2	3	4.00	12.57	08/19/16	8.72	09/13/16	28			
2	4	4.01	12.63	08/19/16	8.78	09/13/16	28			
2	5			08/19/16	8.72		Hold			

Comments: Not tested for plastic unit weight.

Samples Made By: Terracon

Services: Sample fresh concrete at the placement locations, perform required field tests and cast compressive strength samples. Standard test methods include ASTM: C31, C39, C138, C143, C172, C173 or C231, C1064 and C1231.

Terracon Rep.: Jack Kollars

Reported To: Ron Williams with Integral Construction Services

Contractor:

Report Distribution:

(1) Integral Construction Services,
icslsmo@sbcglobal.net

(1) Geiger Ready Mix, Chad English

(1) Geiger Ready Mix, Rusty Owings

Test Methods: ASTM C 31, ASTM C39, ASTM C138, ASTM C143, ASTM C172, ASTM C231, ASTM C1064, ASTM C1231

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CONCRETE COMPRESSIVE STRENGTH TEST REPORT

Terracon

Report Number: 02161145.0020
Service Date: 08/16/16
Report Date: 08/23/16 Revision 1 - 7-day results
Task: 09 - Structural Concrete Testing

13910 W 96th Ter
Lenexa, KS 66215-1228
913-492-7777

Client

Integral Construction Services
Attn: Ron Williams
303 Southwest Market
Lee's Summit, MO 64063

Project

HT Solutions Building
1501 SE Hamblen Road
Lee's Summit, MO

Project Number: 02161145

Material Information

Specified Strength: 4,000 psi @ 28 days

Mix ID: P6HC564V449
Supplier: Geiger
Batch Time: 0533 Plant: Lee's Summit, MO
Truck No.: 326 Ticket No.: 814787

Sample Information

Sample Date: 08/16/16 Sample Time: 0615
Sampled By: Jack Kollars - 4599
Weather Conditions: Clear
Accumulative Yards: 190 Batch Size (cy): 10
Placement Method: Pump
Water Added Before (gal): 7
Water Added After (gal): Slump After (in): 5
Sample Location: 4 Columns From Northwest Corner and
2 Columns From West Edge.
Placement Location: Floor Slab.

Field Test Data

Test	Result	Specification
Slump (in):	5	Max 6
Air Content (%):	1.4	Max 3
Concrete Temp. (F):	78	60 - 90
Ambient Temp. (F):	66	
Plastic Unit Wt. (pcf):		
Yield (Cu. Yds.):		

Laboratory Test Data

Set No.	Specimen ID	Avg Diam. (in)	Area (sq in)	Date Received	Specimen Weight (lbs)	Date Tested	Age at Test (days)	Maximum Load (lbs)	Compressive Strength (psi)	Fracture Type
3	1	4.01	12.63	08/19/16	8.72	08/23/16	7	69,330	5,490	5
3	2	4.02	12.69	08/19/16	8.72	09/13/16	28			
3	3	4.00	12.57	08/19/16	8.74	09/13/16	28			
3	4	4.00	12.57	08/19/16	8.74	09/13/16	28			
3	5			08/19/16	8.72		Hold			

Comments: Not tested for plastic unit weight.

Samples Made By: Terracon

Services: Sample fresh concrete at the placement locations, perform required field tests and cast compressive strength samples. Standard test methods include ASTM: C31, C39, C138, C143, C172, C173 or C231, C1064 and C1231.

Terracon Rep.: Jack Kollars

Reported To: Ron Williams with Integral Construction Services

Contractor:

Report Distribution:

(1) Integral Construction Services, icslsmo@sboglobal.net
(1) Geiger Ready Mix, Chad English
(1) Geiger Ready Mix, Rusty Owings

Test Methods: ASTM C 31, ASTM C39, ASTM C138, ASTM C143, ASTM C172, ASTM C231, ASTM C1064, ASTM C1231

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CONCRETE COMPRESSIVE STRENGTH TEST REPORT

Terracon

Report Number: 02161145.0020
Service Date: 08/16/16
Report Date: 08/23/16 Revision 1 - 7-day results
Task: 09 - Structural Concrete Testing

13910 W 96th Ter
Lenexa, KS 66215-1228
913-492-7777

Client

Integral Construction Services
Attn: Ron Williams
303 Southwest Market
Lee's Summit, MO 64063

Project

HT Solutions Building
1501 SE Hamblen Road
Lee's Summit, MO

Project Number: 02161145

Material Information

Specified Strength: 4,000 psi @ 28 days

Mix ID: P6HC564V449
Supplier: Geiger
Batch Time: 0647 Plant: Lee's Summit, MO
Truck No.: 364 Ticket No.: 8141801

Sample Information

Sample Date: 08/16/16 Sample Time: 0730
Sampled By: Jack Kollars - 4599
Weather Conditions: Clear
Accumulative Yards: 280 Batch Size (cy): 10
Placement Method: Pump
Water Added Before (gal):
Water Added After (gal):
Sample Location: 5th Column From Northwest Corner and
5th Column From West Edge.
Placement Location: Floor Slab.

Field Test Data

Test	Result	Specification
Slump (in):	5 1/2	Max 6
Air Content (%):	1.3	Max 3
Concrete Temp. (F):	81	60 - 90
Ambient Temp. (F):	66	
Plastic Unit Wt. (pcf):		
Yield (Cu. Yds.):		

Laboratory Test Data

Set No.	Specimen ID	Avg Diam. (in)	Area (sq in)	Date Received	Specimen Weight (lbs)	Date Tested	Age at Test (days)	Maximum Load (lbs)	Compressive Strength (psi)	Fracture Type
4	1	4.00	12.57	08/19/16	8.72	08/23/16	7	62,230	4,950	5
4	2	4.01	12.63	08/19/16	8.74	09/13/16	28			
4	3	4.00	12.57	08/19/16	8.72	09/13/16	28			
4	4	4.00	12.57	08/19/16	8.74	09/13/16	28			
4	5			08/19/16	8.72		Hold			

Comments: Not tested for plastic unit weight.

Samples Made By: Terracon

Services: Sample fresh concrete at the placement locations, perform required field tests and cast compressive strength samples. Standard test methods include ASTM: C31, C39, C138, C143, C172, C173 or C231, C1064 and C1231.

Terracon Rep.: Jack Kollars

Reported To: Ron Williams with Integral Construction Services

Contractor:

Report Distribution:

(1) Integral Construction Services,
icslsmo@sbcglobal.net
(1) Geiger Ready Mix, Rusty Owings

(1) Geiger Ready Mix, Chad English

Reviewed By: 

Test Methods: ASTM C 31, ASTM C39, ASTM C138, ASTM C143, ASTM C172, ASTM C231, ASTM C1064, ASTM C1231

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FIELD DENSITY TESTING REPORT

Report Number: 02161145.0023
Service Date: 11/18/16
Report Date: 11/21/16
Task: 01 - Earthwork Observation and Testing

Terracon

13910 W 96th Ter
Lenexa, KS 66215-1228
913-492-7777

Client

Integral Construction Services
Attn: Ron Williams
303 Southwest Market
Lee's Summit, MO 64063

Project

HT Solutions Building
1501 SE Hamblen Road
Lee's Summit, MO

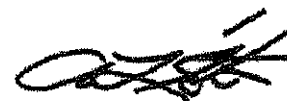
Project Number: 02161145

Services Requested By: Ron Williams with Integral Construction Services
Earthwork Contractor: Mikes Site Work
Observed Location(s): Parking Lot
Fill Type Placed: Pavement Subbase
Proctor No.(s): 02161145
Fill Description: Fat Clay - grayish brown with light reddish brown
Source Of Fill: On-site borrow from various locations
Fill Placement: Compactive efforts were applied with a vibratory sheepsfoot roller.
Field Density Test Results: Field density tests were conducted on the previously placed fill utilizing the nuclear method (ASTM D6938). 2 field density tests were performed. The test results met the minimum specified 95% compaction requirement as compared to ASTM D698. Refer to the attached Field Density Test Summary for individual test data.
Reported To: Ron Williams with Integral Construction services

Services:

Terracon Rep.: Reed M. Brunk
Reported To: Ron Williams with Integral Construction
Contractor: Complete Construction Services
Report Distribution:

(1) Integral Construction Services,
ismno@sbcglobal.net



Reviewed By: _____

Andrew Smith

The tests were performed in general accordance with applicable ASTM, AASHTO, or DOT test methods. This report is exclusively for the use of the client indicated above and shall not be reproduced except in full without the written consent of our company. Test results transmitted herein are only applicable to the actual samples tested at the location(s) referenced and are not necessarily indicative of the properties of other apparently similar or identical materials.

FIELD DENSITY TEST REPORT

Report Number: 02161145.0023
Service Date: 11/18/16
Report Date: 11/21/16
Task: 01 - Earthwork Observation and Testing

Terracon

13910 W 96th Ter
Lenexa, KS 66215-1228
913-492-7777

Client

Integral Construction Services
Attn: Ron Williams
303 Southwest Market
Lee's Summit, MO 64063

Project

HT Solutions Building
1501 SE Hamblen Road
Lee's Summit, MO

Project Number: 02161145

Material Information

Mat. No.	Proctor Ref. No.	Classification and Description	Laboratory Test Method	Lab Test Data		Project Requirements	
				Water Content (%)	Max. Lab Density (pcf)	Water Content (%)	Compaction (%)
1	02161145.0004	Fat Clay (CH), grayish brown with light reddish brown	ASTM D698	20.8	102.4	18.8 - 22.8	Min 95

Field Test Data

Test No.	Test Location	Lift / Elev.	Mat. No.	Probe Depth (in)	Wet Density (pcf)	Water Content (pcf)	Water Content (%)	Dry Density (pcf)	Percent Compaction (%)
Parking Lot									
1	UTM 15S 382168, 4305767	Grade	1	8	132.8	21.2	19.0	111.6	100+
2	UTM 15S 382189, 4305727	Grade	1	8	130.5	20.9	19.1	109.6	100+

Datum: Below final subgrade

Serial No: 36257

Std. Cnt. M: 638

Std. Cnt. D: 2121

Comments: Test and/or retest results on this report meet project requirements as noted above.

Services:

Terracon Rep.: Reed M. Brunk
Reported To: Ron Williams with Integral Construction Services
Contractor: Complete Construction Services

Report Distribution:

(1) Integral Construction Services,
icslsmo@sbcglobal.net

Reviewed By: 

Andrew Smith

Test Methods: ASTM D6938

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General Warranty and Guarantee

Project: HT Solutions

Address: Lee's Summit, MO

I, undersigned, do hereby warrant that all labor and material furnished and work performed in conjunction with the above referenced project are in compliance with the Contract Documents and authorized modifications thereto, and will be free from defects due to defective materials or workmanship for a period of (1) year or a time as specified in the Project Manual from the Date of Turnover.

This Warranty commences on 12/22/2016 and expires on 12/22/2017 .

Should any defects develop during the warranty period due to improper material, workmanship, or arrangement, the same, including adjacent work displaced, shall be made good by the undersigned at no expense to the Owner or KTS Flooring. This warranty excludes cracked tiles and normal wear and tear. Tile is also to be sealed once a year.

The Owner will give Subcontractor written notice of defective work. Should the Subcontractor fail to correct defective work within Thirty (30) days after receipt of written notice, Owner may, at his or her option, correct and charge Subcontractor cost for such correction. Subcontractor agrees to pay such charges upon demand. Nothing in the above shall be deemed to apply to work which has been abused or neglected by the Owner.

Company Name : KTS Flooring

Address : 28900 E Pink Hill Rd Grain Valley, MO 64029

Phone : 909-322-0305

Signature:

Title: Owner

Print Name:

Date: