

CONCRETE COMPRESSIVE STRENGTH TEST REPORT

Report Number: 02191565.0022
Service Date: 04/21/20
Report Date: 04/22/20
Task: 09 - Portland Cement Concrete Testing - Building Elements

Terracon

15620 W 113th St
Lenexa, KS 66219-5102
913-492-7777

Client

Axiom Northwest Construction, Inc.
Attn: Norm Hellings
2232 Broadway
Suite 101
Everett, WA 98201

Project

DCI - Lee's Summit
2001 Shamrock Rd
Lee's Summit, MO

Project Number: 02191565

Material Information

Specified Strength: 4,000 psi @ 28 days

Mix ID: KC4KDM40Q
Supplier: Geiger
Batch Time: 1658 **Plant:** Lees Summit
Truck No.: 377 **Ticket No.:** 803033

Sample Information

Sample Date: 04/21/20 **Sample Time:** 1720
Sampled By: Kevin L. McCurdy
Weather Conditions: Clear, light wind
Accumulative Yards: 6 **Batch Size (cy):**
Placement Method: Direct Discharge
Water Added Before (gal):
Water Added After (gal):
Sample Location: Same as placement location
Placement Location: Pavement patch 50' north of Sterling Drive

Field Test Data

Test	Result	Specification
Slump (in):	1 1/2 *	3 - 5
Air Content (%):	5.2	5 - 8
Concrete Temp. (F):	72	
Ambient Temp. (F):	72	

Plastic Unit Wt. (pcf):

Yield (Cu. Yds.):

* = Field Test Results do not meet project specifications.

Laboratory Test Data

Set No.	Specimen ID	Avg Diam. (in)	Area (sq in)	Date Received	Date Tested	Age at Test (days)	Maximum Load (lbs)	Compressive Strength (psi)	Fracture Type	Tested By
1	1	4.00	12.57		04/28/20	7				
1	2	4.00	12.57		05/19/20	28				
1	3	4.00	12.57		05/19/20	28				
1	4	4.00	12.57		05/19/20	28				
1	5					Hold				

Initial Cure: Outside

Final Cure: Moist Room

Comments: Not tested for plastic unit weight.
KCMMB

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.: Kevin L. McCurdy

Reported To: Norm with Axiom

Contractor: Axiom Northwest Construction

Report Distribution:

(1) Axiom Northwest Construction, Inc.,
norm@axiomnw.com

Reviewed By:


Feras El-Ghousseir
Project Manager

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

Report Number: 02191565.0022
Service Date: 04/21/20
Report Date: 04/28/20 Revision 1 - 7-day results
Task: 09 - Portland Cement Concrete Testing - Building Elements

Terracon

15620 W 113th St
Lenexa, KS 66219-5102
913-492-7777

Client

Axiom Northwest Construction, Inc.
Attn: Norm Hellings
2232 Broadway
Suite 101
Everett, WA 98201

Project

DCI - Lee's Summit
2001 Shamrock Rd
Lee's Summit, MO

Project Number: 02191565

Material Information

Specified Strength: 4,000 psi @ 28 days

Mix ID: KC4KDM40Q
Supplier: Geiger
Batch Time: 1658 **Plant:** Lees Summit
Truck No.: 377 **Ticket No.:** 803033

Sample Information

Sample Date: 04/21/20 **Sample Time:** 1720
Sampled By: Kevin L. McCurdy
Weather Conditions: Clear, light wind
Accumulative Yards: 6 **Batch Size (cy):**
Placement Method: Direct Discharge
Water Added Before (gal):
Water Added After (gal):
Sample Location: Same as placement location
Placement Location: Pavement patch 50' north of Sterling Drive

Field Test Data

Test	Result	Specification
Slump (in):	1 1/2 *	3 - 5
Air Content (%):	5.2	5 - 8
Concrete Temp. (F):	72	
Ambient Temp. (F):	72	

Plastic Unit Wt. (pcf):

Yield (Cu. Yds.):

* = Field Test Results do not meet project specifications.

Laboratory Test Data

Set No.	Specimen ID	Avg Diam. (in)	Area (sq in)	Date Received	Date Tested	Age at Test (days)	Maximum Load (lbs)	Compressive Strength (psi)	Fracture Type	Tested By
1	1	4.01	12.63		04/28/20	7	58,970	4,670	3	RES
1	2	4.00	12.57		05/19/20	28				
1	3	4.00	12.57		05/19/20	28				
1	4	4.00	12.57		05/19/20	28				
1	5					Hold				

Initial Cure: Outside

Final Cure: Moist Room

Comments: Not tested for plastic unit weight.
KCMMB

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.: Kevin L. McCurdy

Reported To: Norm with Axiom

Contractor: Axiom Northwest Construction

Report Distribution:

(1) Axiom Northwest Construction, Inc.,
norm@axiomnw.com

Reviewed By:


Feras El-Ghousseir
Project Manager

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

Report Number: 02191565.0022
Service Date: 04/21/20
Report Date: 05/20/20 Revision 2 - 28-day results
Task: 09 - Portland Cement Concrete Testing - Building Elements

Terracon

15620 W 113th St
Lenexa, KS 66219-5102
913-492-7777

Client

Axiom Northwest Construction, Inc.
Attn: Norm Hellings
2232 Broadway
Suite 101
Everett, WA 98201

Project

DCI - Lee's Summit
2001 Shamrock Rd
Lee's Summit, MO

Project Number: 02191565

Material Information

Specified Strength: 4,000 psi @ 28 days

Mix ID: KC4KDM40Q
Supplier: Geiger
Batch Time: 1658 **Plant:** Lees Summit
Truck No.: 377 **Ticket No.:** 803033

Sample Information

Sample Date: 04/21/20 **Sample Time:** 1720
Sampled By: Kevin L. McCurdy
Weather Conditions: Clear, light wind
Accumulative Yards: 6 **Batch Size (cy):**
Placement Method: Direct Discharge
Water Added Before (gal):
Water Added After (gal):
Sample Location: Same as placement location
Placement Location: Pavement patch 50' north of Sterling Drive

Field Test Data

Test	Result	Specification
Slump (in):	1 1/2 *	3 - 5
Air Content (%):	5.2	5 - 8
Concrete Temp. (F):	72	
Ambient Temp. (F):	72	
Plastic Unit Wt. (pcf):		
Yield (Cu. Yds.):		

* = Field Test Results do not meet project specifications.

Laboratory Test Data

Set No.	Specimen ID	Avg Diam. (in)	Area (sq in)	Date Received	Date Tested	Age at Test (days)	Maximum Load (lbs)	Compressive Strength (psi)	Fracture Type	Tested By
1	1	4.01	12.63		04/28/20	7	58,970	4,670	3	RES
1	2	4.00	12.57		05/19/20	28	81,120	6,460	3	RES
1	3	4.00	12.57		05/19/20	28	76,390	6,080	3	RES
1	4	4.00	12.57		05/19/20	28	78,200	6,220	3	RES
							Average (28 days)	6,250		
1	5					Hold				

Initial Cure: Outside

Final Cure: Moist Room

Comments: Average compressive strength of 28 day cylinders complies with the specified strength. Not tested for plastic unit weight.
KCMMB

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.: Kevin L. McCurdy

Reported To: Norm with Axiom

Contractor: Axiom Northwest Construction

Report Distribution:

(1) Axiom Northwest Construction, Inc.,
norm@axiomnw.com

Reviewed By:


Feras El-Ghousseir
Project Manager

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

Report Number: 02191565.0030
Service Date: 05/19/20
Report Date: 05/26/20
Task: 09 - Portland Cement Concrete Testing - Building Elements

Terracon

15620 W 113th St
Lenexa, KS 66219-5102
913-492-7777

Client

Axiom Northwest Construction, Inc.
Attn: Norm Hellings
2232 Broadway
Suite 101
Everett, WA 98201

Project

DCI - Lee's Summit
2001 Shamrock Rd
Lee's Summit, MO

Project Number: 02191565

Material Information

Specified Strength: 3,000 psi @ 28 days

Mix ID: P6BD480V453
Supplier: Geiger
Batch Time: 1402
Truck No.: 385
Plant: Lee's Summit, MO
Ticket No.: 804986

Sample Information

Sample Date: 05/19/20
Sampled By: Caleb Brewer
Weather Conditions: Partly Cloudy
Accumulative Yards: 10
Batch Size (cy): 10
Placement Method: Pump
Water Added Before (gal):
Water Added After (gal):
Sample Location: Northeast corner of perimeter footing at gridline B.5/1

Field Test Data

Test	Result	Specification
Slump (in):	6	
Air Content (%):	2.8	
Concrete Temp. (F):	68	
Ambient Temp. (F):	67	
Plastic Unit Wt. (pcf):	147.0	
Yield (Cu. Yds.):		

Placement Location: Perimeter Footings and Interior Spread Footings

Laboratory Test Data

Set No.	Specimen ID	Avg Diam. (in)	Area (sq in)	Date Received	Date Tested	Age at Test (days)	Maximum Load (lbs)	Compressive Strength (psi)	Fracture Type	Tested By
1	1	4.00	12.57		05/26/20	7	41,440	3,300	2	RES
1	2	4.00	12.57		05/26/20	7	44,110	3,510	2	RES
						Average (7 days)		3,400		
1	3	4.00	12.57		06/16/20	28				
1	4	4.00	12.57		06/16/20	28				
1	5					Hold				

Initial Cure: Onsite Cooler

Final Cure: Moist Room

Comments:

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.: Caleb Brewer

Reported To:

Contractor: Axiom Northwest Construction

Report Distribution:

(1) Axiom Northwest Construction, Inc.,
norm@axiomnw.com

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

Report Number: 02191565.0030
Service Date: 05/19/20
Report Date: 05/26/20
Task: 09 - Portland Cement Concrete Testing - Building Elements

Terracon

15620 W 113th St
Lenexa, KS 66219-5102
913-492-7777

Client

Axiom Northwest Construction, Inc.
Attn: Norm Hellings
2232 Broadway
Suite 101
Everett, WA 98201

Project

DCI - Lee's Summit
2001 Shamrock Rd
Lee's Summit, MO

Project Number: 02191565

Material Information

Specified Strength: 3,000 psi @ 28 days

Mix ID: P6BD480V453
Supplier: Geiger
Batch Time: 1514 **Plant:** Lee's Summit, MO
Truck No.: 454 **Ticket No.:** 805003

Sample Information

Sample Date: 05/19/20 **Sample Time:** 1545
Sampled By: Caleb Brewer
Weather Conditions: Partly Cloudy
Accumulative Yards: 60 **Batch Size (cy):** 10
Placement Method: Pump
Water Added Before (gal):
Water Added After (gal):
Sample Location: South Perimeter Footing at gridline B/2.
Placement Location: Perimeter Footings and Interior Spread Footings

Field Test Data

Test	Result	Specification
Slump (in):	6	
Air Content (%):	2.8	
Concrete Temp. (F):	68	
Ambient Temp. (F):	70	
Plastic Unit Wt. (pcf):	147.3	
Yield (Cu. Yds.):		

Laboratory Test Data

Set No.	Specimen ID	Avg Diam. (in)	Area (sq in)	Date Received	Date Tested	Age at Test (days)	Maximum Load (lbs)	Compressive Strength (psi)	Fracture Type	Tested By
2	1	4.00	12.57		05/26/20	7	44,340	3,530	2	RES
2	2	4.00	12.57		05/26/20	7	42,800	3,410	2	RES
Average (7 days)								3,470		
2	3	4.00	12.57		06/16/20	28				
2	4	4.00	12.57		06/16/20	28				
2	5					Hold				

Initial Cure: Onsite Cooler

Final Cure: Moist Room

Comments:

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.: Caleb Brewer

Reported To:

Contractor: Axiom Northwest Construction

Report Distribution:

(1) Axiom Northwest Construction, Inc.,
norm@axiomnw.com

Reviewed By:


Feras El-Ghousseir
Project Manager

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: 02191565.0030
Service Date: 05/19/20
Report Date: 06/16/20 Revision 1 - 28-day results
Task: 09 - Portland Cement Concrete Testing - Building Elements

15620 W 113th St
Lenexa, KS 66219-5102
913-492-7777

Client

Axiom Northwest Construction, Inc.
Attn: Norm Hellings
2232 Broadway
Suite 101
Everett, WA 98201

Project

DCI - Lee's Summit
2001 Shamrock Rd
Lee's Summit, MO

Project Number: 02191565

Material Information

Specified Strength: 3,000 psi @ 28 days
Mix ID: P6BD480V453
Supplier: Geiger
Batch Time: 1402 **Plant:** Lee's Summit, MO
Truck No.: 385 **Ticket No.:** 804986

Sample Information

Sample Date: 05/19/20 **Sample Time:** 1430
Sampled By: Caleb Brewer
Weather Conditions: Partly Cloudy
Accumulative Yards: 10 **Batch Size (cy):** 10
Placement Method: Pump
Water Added Before (gal):
Water Added After (gal):
Sample Location: Northeast corner of perimeter footing at gridline B.5/1
Placement Location: Perimeter Footings and Interior Spread Footings

Field Test Data

Test	Result	Specification
Slump (in):	6	
Air Content (%):	2.8	
Concrete Temp. (F):	68	
Ambient Temp. (F):	67	
Plastic Unit Wt. (pcf):	147.0	
Yield (Cu. Yds.):		

Laboratory Test Data

Set No.	Specimen ID	Avg Diam. (in)	Area (sq in)	Date Received	Date Tested	Age at Test (days)	Maximum Load (lbs)	Compressive Strength (psi)	Fracture Type	Tested By
1	1	4.00	12.57	06/03/20	05/26/20	7	41,440	3,300	2	RES
1	2	4.00	12.57	06/03/20	05/26/20	7	44,110	3,510	2	RES
Average (7 days)								3,400		
1	3	4.00	12.57	06/03/20	06/16/20	28	64,770	5,150	3	RES
1	4	4.00	12.57	06/03/20	06/16/20	28	64,250	5,110	2	RES
Average (28 days)								5,130		
1	5			06/03/20		Hold				

Initial Cure: Onsite Cooler

Final Cure: Moist Room

Comments: Average compressive strength of 28 day cylinders complies with the specified strength.

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.: Caleb Brewer

Reported To:

Contractor: Axiom Northwest Construction

Report Distribution:

(1) Axiom Northwest Construction, Inc.,
norm@axiomnw.com

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

Report Number: 02191565.0030
Service Date: 05/19/20
Report Date: 06/16/20 Revision 1 - 28-day results
Task: 09 - Portland Cement Concrete Testing - Building Elements

Terracon

15620 W 113th St
Lenexa, KS 66219-5102
913-492-7777

Client

Axiom Northwest Construction, Inc.
Attn: Norm Hellings
2232 Broadway
Suite 101
Everett, WA 98201

Project

DCI - Lee's Summit
2001 Shamrock Rd
Lee's Summit, MO

Project Number: 02191565

Material Information

Specified Strength: 3,000 psi @ 28 days

Mix ID: P6BD480V453
Supplier: Geiger
Batch Time: 1514 **Plant:** Lee's Summit, MO
Truck No.: 454 **Ticket No.:** 805003

Sample Information

Sample Date: 05/19/20 **Sample Time:** 1545
Sampled By: Caleb Brewer
Weather Conditions: Partly Cloudy
Accumulative Yards: 60 **Batch Size (cy):** 10
Placement Method: Pump
Water Added Before (gal):
Water Added After (gal):
Sample Location: South Perimeter Footing at gridline B/2.
Placement Location: Perimeter Footings and Interior Spread Footings

Field Test Data

Test	Result	Specification
Slump (in):	6	
Air Content (%):	2.8	
Concrete Temp. (F):	68	
Ambient Temp. (F):	70	
Plastic Unit Wt. (pcf):	147.3	
Yield (Cu. Yds.):		

Laboratory Test Data

Set No.	Specimen ID	Avg Diam. (in)	Area (sq in)	Date Received	Date Tested	Age at Test (days)	Maximum Load (lbs)	Compressive Strength (psi)	Fracture Type	Tested By
2	1	4.00	12.57	06/03/20	05/26/20	7	44,340	3,530	2	RES
2	2	4.00	12.57	06/03/20	05/26/20	7	42,800	3,410	2	RES
Average (7 days)								3,470		
2	3	4.00	12.57	06/03/20	06/16/20	28	63,600	5,060	3	RES
2	4	4.00	12.57	06/03/20	06/16/20	28	62,470	4,970	2	RES
Average (28 days)								5,020		
2	5			06/03/20		Hold				

Initial Cure: Onsite Cooler

Final Cure: Moist Room

Comments: Average compressive strength of 28 day cylinders complies with the specified strength.

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.: Caleb Brewer

Reported To:

Contractor: Axiom Northwest Construction

Report Distribution:

(1) Axiom Northwest Construction, Inc.,
norm@axiomnw.com

Reviewed By:


Feras El-Ghasseni
Project Manager

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

Report Number: 02191565.0034
Service Date: 05/20/20
Report Date: 05/27/20
Task: 09 - Portland Cement Concrete Testing - Building Elements

Terracon

15620 W 113th St
Lenexa, KS 66219-5102
913-492-7777

Client

Axiom Northwest Construction, Inc.
Attn: Norm Hellings
2232 Broadway
Suite 101
Everett, WA 98201

Project

DCI - Lee's Summit
2001 Shamrock Rd
Lee's Summit, MO

Project Number: 02191565

Material Information

Specified Strength: 3,000 psi @ 28 days

Mix ID: P6BD480V453
Supplier: Geiger
Batch Time: 1339
Truck No.: 453
Plant: Lee's Summit, MO
Ticket No.: 805115

Sample Information

Sample Date: 05/20/20
Sampled By: Caleb Brewer
Weather Conditions: Overcast
Accumulative Yards: 6.5
Batch Size (cy): 6.5
Placement Method: Direct Discharge
Water Added Before (gal):
Water Added After (gal):
Sample Location: Same as Placement Location
Placement Location: Isolated Spread Footings at Gridlines A/3 and A/5

Field Test Data

Test	Result	Specification
Slump (in):	7	
Air Content (%):	2.4	
Concrete Temp. (F):	70	
Ambient Temp. (F):	61	
Plastic Unit Wt. (pcf):	147.2	
Yield (Cu. Yds.):		

Laboratory Test Data

Set No.	Specimen ID	Avg Diam. (in)	Area (sq in)	Date Received	Date Tested	Age at Test (days)	Maximum Load (lbs)	Compressive Strength (psi)	Fracture Type	Tested By
1	1	4.01	12.63		05/27/20	7	41,190	3,260	2	RES
1	2	4.01	12.63		05/27/20	7	38,030	3,010	2	RES
						Average (7 days)		3,140		
1	3	4.00	12.57		06/17/20	28				
1	4	4.00	12.57		06/17/20	28				
1	5					Hold				

Initial Cure: Onsite Cooler

Final Cure: Moist Room

Comments:

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.: Caleb Brewer

Reported To: Norm with Axiom

Contractor: Axiom Northwest Construction

Report Distribution:

(1) Axiom Northwest Construction, Inc.,
norm@axiomnw.com

Reviewed By:


Feras El-Ghousseir
Project Manager

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

Report Number: 02191565.0034
Service Date: 05/20/20
Report Date: 06/24/20 Revision 1 - 28-day results
Task: 09 - Portland Cement Concrete Testing - Building Elements

Terracon

15620 W 113th St
Lenexa, KS 66219-5102
913-492-7777

Client

Axiom Northwest Construction, Inc.
Attn: Norm Hellings
2232 Broadway
Suite 101
Everett, WA 98201

Project

DCI - Lee's Summit
2001 Shamrock Rd
Lee's Summit, MO

Project Number: 02191565

Material Information

Specified Strength: 3,000 psi @ 28 days
Mix ID: P6BD480V453
Supplier: Geiger
Batch Time: 1339 **Plant:** Lee's Summit, MO
Truck No.: 453 **Ticket No.:** 805115

Sample Information

Sample Date: 05/20/20 **Sample Time:** 1400
Sampled By: Caleb Brewer
Weather Conditions: Overcast
Accumulative Yards: 6.5 **Batch Size (cy):** 6.5
Placement Method: Direct Discharge
Water Added Before (gal):
Water Added After (gal):
Sample Location: Same as Placement Location
Placement Location: Isolated Spread Footings at Gridlines A/3 and A/5

Field Test Data

Test	Result	Specification
Slump (in):	7	
Air Content (%):	2.4	
Concrete Temp. (F):	70	
Ambient Temp. (F):	61	
Plastic Unit Wt. (pcf):	147.2	
Yield (Cu. Yds.):		

Laboratory Test Data

Set No.	Specimen ID	Avg Diam. (in)	Area (sq in)	Date Received	Date Tested	Age at Test (days)	Maximum Load (lbs)	Compressive Strength (psi)	Fracture Type	Tested By
1	1	4.01	12.63	06/03/20	05/27/20	7	41,190	3,260	2	RES
1	2	4.01	12.63	06/03/20	05/27/20	7	38,030	3,010	2	RES
						Average (7 days)		3,140		
1	3	4.00	12.57	06/03/20	06/17/20	28	59,400	4,730	2	RES
1	4	4.00	12.57	06/03/20	06/17/20	28	55,880	4,450	2	RES
						Average (28 days)		4,590		
1	5			06/03/20		Hold				

Initial Cure: Onsite Cooler

Final Cure: Moist Room

Comments: Average compressive strength of 28 day cylinders complies with the specified strength.

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.: Caleb Brewer

Reported To: Norm with Axiom

Contractor: Axiom Northwest Construction

Report Distribution:

(1) Axiom Northwest Construction, Inc.,
norm@axiomnw.com

Reviewed By:


Feras El-Ghasssein
Project Manager

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

Report Number: 02191565.0038
Service Date: 05/27/20
Report Date: 06/03/20
Task: 09 - Portland Cement Concrete Testing - Building Elements

Terracon

15620 W 113th St
Lenexa, KS 66219-5102
913-492-7777

Client

Axiom Northwest Construction, Inc.
Attn: Norm Hellings
2232 Broadway
Suite 101
Everett, WA 98201

Project

DCI - Lee's Summit
2001 Shamrock Rd
Lee's Summit, MO

Project Number: 02191565

Material Information

Specified Strength: 4,000 psi @ 28 days

Mix ID: P8BC480W453
Supplier: Geiger Ready Mix
Batch Time: 0915 **Plant:** Lee's Summit, MO
Truck No.: 452 **Ticket No.:** 805388

Sample Information

Sample Date: 05/27/20 **Sample Time:** 0945
Sampled By: Carl W. Creamer
Weather Conditions: Mostly Cloudy
Accumulative Yards: 6 **Batch Size (cy):** 6
Placement Method: Direct Discharge
Water Added Before (gal):
Water Added After (gal):
Sample Location: At B/1.8
Placement Location: Foundation Stem Walls, Line B/1 to 1.8 and Line 1/B to B.5

Field Test Data

Test	Result	Specification
Slump (in):	5 1/2	Max 8
Air Content (%):	3.0	
Concrete Temp. (F):	71	
Ambient Temp. (F):	65	
Plastic Unit Wt. (pcf):		
Yield (Cu. Yds.):		

Laboratory Test Data

Set No.	Specimen ID	Avg Diam. (in)	Area (sq in)	Date Received	Date Tested	Age at Test (days)	Maximum Load (lbs)	Compressive Strength (psi)	Fracture Type	Tested By
1	1	4.01	12.63	06/03/20	06/03/20	7	43,290	3,430	2	RES
1	2	4.00	12.57	06/03/20	06/24/20	28				
1	3	4.00	12.57	06/03/20	06/24/20	28				
1	4	4.00	12.57	06/03/20	06/24/20	28				
1	5			06/03/20		Hold				

Initial Cure: Outside

Final Cure: Moist Room

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.: Carl W. Creamer

Reported To: Norm with Axiom

Contractor: Axiom Northwest Construction

Report Distribution:

(1) Axiom Northwest Construction, Inc.,
norm@axiomnw.com

Reviewed By:


Feras El-Ghousseir
Project Manager

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

Report Number: 02191565.0038
Service Date: 05/27/20
Report Date: 06/24/20 Revision 1 - 28-day results
Task: 09 - Portland Cement Concrete Testing - Building Elements

Terracon

15620 W 113th St
Lenexa, KS 66219-5102
913-492-7777

Client

Axiom Northwest Construction, Inc.
Attn: Norm Hellings
2232 Broadway
Suite 101
Everett, WA 98201

Project

DCI - Lee's Summit
2001 Shamrock Rd
Lee's Summit, MO

Project Number: 02191565

Material Information

Specified Strength: 4,000 psi @ 28 days
Mix ID: P8BC480W453
Supplier: Geiger Ready Mix
Batch Time: 0915 **Plant:** Lee's Summit, MO
Truck No.: 452 **Ticket No.:** 805388

Sample Information

Sample Date: 05/27/20 **Sample Time:** 0945
Sampled By: Carl W. Creamer
Weather Conditions: Mostly Cloudy
Accumulative Yards: 6 **Batch Size (cy):** 6
Placement Method: Direct Discharge
Water Added Before (gal):
Water Added After (gal):
Sample Location: At B/1.8
Placement Location: Foundation Stem Walls, Line B/1 to 1.8 and Line 1/B to B.5

Field Test Data

Test	Result	Specification
Slump (in):	5 1/2	Max 8
Air Content (%):	3.0	
Concrete Temp. (F):	71	
Ambient Temp. (F):	65	
Plastic Unit Wt. (pcf):		
Yield (Cu. Yds.):		

Laboratory Test Data

Set No.	Specimen ID	Avg Diam. (in)	Area (sq in)	Date Received	Date Tested	Age at Test (days)	Maximum Load (lbs)	Compressive Strength (psi)	Fracture Type	Tested By
1	1	4.01	12.63	06/03/20	06/03/20	7	43,290	3,430	2	RES
1	2	4.00	12.57	06/03/20	06/24/20	28	62,150	4,950	3	RES
1	3	4.00	12.57	06/03/20	06/24/20	28	61,610	4,900	2	RES
1	4	4.00	12.57	06/03/20	06/24/20	28	61,870	4,920	2	RES
Average (28 days)								4,920		
1	5			06/03/20		Hold				

Initial Cure: Outside

Final Cure: Moist Room

Comments: Average compressive strength of 28 day cylinders complies with the specified strength. 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.: Carl W. Creamer

Reported To: Norm with Axiom

Contractor: Axiom Northwest Construction

Report Distribution:

(1) Axiom Northwest Construction, Inc.,
norm@axiomnw.com

Reviewed By:


Feras El-Ghasssein
Project Manager

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

Report Number: 02191565.0042
Service Date: 06/02/20
Report Date: 06/09/20
Task: 09 - Portland Cement Concrete Testing - Building Elements

Terracon

15620 W 113th St
Lenexa, KS 66219-5102
913-492-7777

Client

Axiom Northwest Construction, Inc.
Attn: Norm Hellings
2232 Broadway
Suite 101
Everett, WA 98201

Project

DCI - Lee's Summit
2001 Shamrock Rd
Lee's Summit, MO

Project Number: 02191565

Material Information

Specified Strength: 4,000 psi @ 28 days

Mix ID: P8BC480W453
Supplier: Geiger
Batch Time: 1424
Truck No.: 466
Plant: Lee's Summit, MO
Ticket No.: 805786

Field Test Data

Test	Result	Specification
Slump (in):	6	Max 8
Air Content (%):	4.0	
Concrete Temp. (F):	77	
Ambient Temp. (F):	88	
Plastic Unit Wt. (pcf):		
Yield (Cu. Yds.):		

Sample Information

Sample Date: 06/02/20
Sampled By: Damien McKnight
Weather Conditions: Clear
Accumulative Yards: 7.25
Batch Size (cy): 7.25
Placement Method: Direct Discharge
Water Added Before (gal): 2
Water Added After (gal): 0
Sample Location: B / 3
Placement Location: Perimeter stem wall, along gridlines B/1.8-9 and B to 11' east of D/9

Laboratory Test Data

Set No.	Specimen ID	Avg Diam. (in)	Area (sq in)	Date Received	Date Tested	Age at Test (days)	Maximum Load (lbs)	Compressive Strength (psi)	Fracture Type	Tested By
1	1	4.01	12.63	06/03/20	06/09/20	7	43,810	3,470	2	RES
1	2	4.00	12.57	06/03/20	06/30/20	28				
1	3	4.00	12.57	06/03/20	06/30/20	28				
1	4	4.00	12.57	06/03/20	06/30/20	28				
1	5			06/03/20		Hold				

Initial Cure: Onsite Cooler

Final Cure: Moist Room

Comments: Not tested for plastic unit weight.
No Specs On Site.

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.: Damien McKnight

Reported To: Norm with Axiom

Contractor: Axiom Northwest Construction

Report Distribution:

(1) Axiom Northwest Construction, Inc.,
norm@axiomnw.com

Reviewed By:


Feras El-Ghasseni
Project Manager

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: 02191565.0042
Service Date: 06/02/20
Report Date: 07/01/20 Revision 1 - 28-day results
Task: 09 - Portland Cement Concrete Testing - Building Elements

15620 W 113th St
Lenexa, KS 66219-5102
913-492-7777

Client

Axiom Northwest Construction, Inc.
Attn: Norm Hellings
2232 Broadway
Suite 101
Everett, WA 98201

Project

DCI - Lee's Summit
2001 Shamrock Rd
Lee's Summit, MO

Project Number: 02191565

Material Information

Specified Strength: 4,000 psi @ 28 days

Mix ID: P8BC480W453
Supplier: Geiger
Batch Time: 1424 **Plant:** Lee's Summit, MO
Truck No.: 466 **Ticket No.:** 805786

Sample Information

Sample Date: 06/02/20 **Sample Time:** 1500
Sampled By: Damien McKnight
Weather Conditions: Clear
Accumulative Yards: 7.25 **Batch Size (cy):** 7.25
Placement Method: Direct Discharge
Water Added Before (gal): 2
Water Added After (gal): 0
Sample Location: B / 3
Placement Location: Perimeter stem wall, along gridlines
B/1.8-9 and B to 11' east of D/9

Field Test Data

Test	Result	Specification
Slump (in):	6	Max 8
Air Content (%):	4.0	
Concrete Temp. (F):	77	
Ambient Temp. (F):	88	
Plastic Unit Wt. (pcf):		
Yield (Cu. Yds.):		

Laboratory Test Data

Set No.	Specimen ID	Avg Diam. (in)	Area (sq in)	Date Received	Date Tested	Age at Test (days)	Maximum Load (lbs)	Compressive Strength (psi)	Fracture Type	Tested By
1	1	4.01	12.63	06/03/20	06/09/20	7	43,810	3,470	2	RES
1	2	4.00	12.57	06/03/20	06/30/20	28	61,820	4,920	3	RES
1	3	4.00	12.57	06/03/20	06/30/20	28	61,610	4,900	2	RES
1	4	4.00	12.57	06/03/20	06/30/20	28	60,330	4,800	3	RES
Average (28 days)								4,870		
1	5			06/03/20		Hold				

Initial Cure: Onsite Cooler

Final Cure: Moist Room

Comments: Average compressive strength of 28 day cylinders complies with the specified strength. Not tested for plastic unit weight.
No Specs On Site.

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.: Damien McKnight

Reported To: Norm with Axiom

Contractor: Axiom Northwest Construction

Report Distribution:

(1) Axiom Northwest Construction, Inc.,
norm@axiomnw.com

Reviewed By:


Feras El-Ghasseni
Project Manager

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

Report Number: 02191565.0045
Service Date: 06/05/20
Report Date: 06/14/20
Task: 09 - Portland Cement Concrete Testing - Building Elements

Terracon

15620 W 113th St
Lenexa, KS 66219-5102
913-492-7777

Client

Axiom Northwest Construction, Inc.
Attn: Norm Hellings
2232 Broadway
Suite 101
Everett, WA 98201

Project

DCI - Lee's Summit
2001 Shamrock Rd
Lee's Summit, MO

Project Number: 02191565

Material Information

Specified Strength: 4,000 psi @ 28 days

Mix ID: P8BC480W453
Supplier: Geiger
Batch Time: 0813 **Plant:** Lee's Summit, MO
Truck No.: 452 **Ticket No.:** 806016

Sample Information

Sample Date: 06/05/20 **Sample Time:** 0830
Sampled By: Caleb Brewer
Weather Conditions: Overcast
Accumulative Yards: 8.75 **Batch Size (cy):** 8.75
Placement Method: Direct Discharge
Water Added Before (gal):
Water Added After (gal):
Sample Location: Stem Wall 30' North of SW building corner.

Field Test Data

Test	Result	Specification
Slump (in):	6 1/2	Max 8
Air Content (%):	2.8	
Concrete Temp. (F):	75	
Ambient Temp. (F):	76	
Plastic Unit Wt. (pcf):	147.0	
Yield (Cu. Yds.):		

Placement Location: Perimeter stem wall at gridlines B/9 to SW corner of building to 40' north of SW corner.

Laboratory Test Data

Set No.	Specimen ID	Avg Diam. (in)	Area (sq in)	Date Received	Date Tested	Age at Test (days)	Maximum Load (lbs)	Compressive Strength (psi)	Fracture Type	Tested By
1	1	4.01	12.63	06/09/20	06/12/20	7	42,740	3,380	2	ALP
1	2	4.00	12.57	06/09/20	07/03/20	28				
1	3	4.00	12.57	06/09/20	07/03/20	28				
1	4	4.00	12.57	06/09/20	07/03/20	28				
1	5			06/09/20		Hold				

Initial Cure: Onsite Cooler

Final Cure: Moist Room

Comments:

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.: Caleb Brewer

Reported To: Norm Hellings (Axiom Northwest Construction)

Contractor: Axiom Northwest Construction

Report Distribution:

(1) Axiom Northwest Construction, Inc.,
norm@axiomnw.com

Reviewed By:


Feras El-Ghasseni
Project Manager

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

Report Number: 02191565.0045
Service Date: 06/05/20
Report Date: 07/08/20 Revision 1 - 28-day results
Task: 09 - Portland Cement Concrete Testing - Building Elements

Terracon

15620 W 113th St
Lenexa, KS 66219-5102
913-492-7777

Client

Axiom Northwest Construction, Inc.
Attn: Norm Hellings
2232 Broadway
Suite 101
Everett, WA 98201

Project

DCI - Lee's Summit
2001 Shamrock Rd
Lee's Summit, MO

Project Number: 02191565

Material Information

Specified Strength: 4,000 psi @ 28 days

Mix ID: P8BC480W453
Supplier: Geiger
Batch Time: 0813 **Plant:** Lee's Summit, MO
Truck No.: 452 **Ticket No.:** 806016

Sample Information

Sample Date: 06/05/20 **Sample Time:** 0830
Sampled By: Caleb Brewer
Weather Conditions: Overcast
Accumulative Yards: 8.75 **Batch Size (cy):** 8.75
Placement Method: Direct Discharge
Water Added Before (gal):
Water Added After (gal):
Sample Location: Stem Wall 30' North of SW building corner.

Field Test Data

Test	Result	Specification
Slump (in):	6 1/2	Max 8
Air Content (%):	2.8	
Concrete Temp. (F):	75	
Ambient Temp. (F):	76	
Plastic Unit Wt. (pcf):	147.0	
Yield (Cu. Yds.):		

Placement Location: Perimeter stem wall at gridlines B/9 to SW corner of building to 40' north of SW corner.

Laboratory Test Data

Set No.	Specimen ID	Avg Diam. (in)	Area (sq in)	Date Received	Date Tested	Age at Test (days)	Maximum Load (lbs)	Compressive Strength (psi)	Fracture Type	Tested By
1	1	4.01	12.63	06/09/20	06/12/20	7	42,740	3,380	2	ALP
1	2	4.01	12.63	06/09/20	07/03/20	28	60,320	4,780	2	ALP
1	3	4.01	12.63	06/09/20	07/03/20	28	61,420	4,860	2	ALP
1	4	4.01	12.63	06/09/20	07/03/20	28	61,780	4,890	3	ALP
Average (28 days)								4,840		
1	5			06/09/20		Hold				

Initial Cure: Onsite Cooler

Final Cure: Moist Room

Comments: Average compressive strength of 28 day cylinders complies with the specified strength.

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.: Caleb Brewer

Reported To: Norm Hellings (Axiom Northwest Construction)

Contractor: Axiom Northwest Construction

Report Distribution:

(1) Axiom Northwest Construction, Inc.,
norm@axiomnw.com

Reviewed By:


Feras El-Ghasseni
Project Manager

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

Report Number: 02191565.0048
Service Date: 06/11/20
Report Date: 06/29/20
Task: 09 - Portland Cement Concrete Testing - Building Elements

Terracon

15620 W 113th St
Lenexa, KS 66219-5102
913-492-7777

Client

Axiom Northwest Construction, Inc.
Attn: Norm Hellings
2232 Broadway
Suite 101
Everett, WA 98201

Project

DCI - Lee's Summit
2001 Shamrock Rd
Lee's Summit, MO

Project Number: 02191565

Material Information

Specified Strength: 4,000 psi @ 28 days

Mix ID: KC4KDM60Q
Supplier: Geiger
Batch Time: 0917 **Plant:** Lee's Summit
Truck No.: 453 **Ticket No.:** 806504

Sample Information

Sample Date: 06/11/20 **Sample Time:** 0952
Sampled By: Damien McKnight
Weather Conditions: Clear
Accumulative Yards: 6 **Batch Size (cy):** 6
Placement Method: Direct Discharge
Water Added Before (gal): 0
Water Added After (gal): 0
Sample Location: Approximately 50 feet N. of 1st St on Pryor Rd, NE corner of slab

Placement Location: Sidewalk slab on grade located approximately 50 feet N. of 1st St on Pryor Rd,

Field Test Data

Test	Result	Specification
Slump (in):	4 1/2	
Air Content (%):	5.9	
Concrete Temp. (F):	81	
Ambient Temp. (F):	78	
Plastic Unit Wt. (pcf):	143.6	
Yield (Cu. Yds.):		

Laboratory Test Data

Set No.	Specimen ID	Avg Diam. (in)	Area (sq in)	Date Received	Date Tested	Age at Test (days)	Maximum Load (lbs)	Compressive Strength (psi)	Fracture Type	Tested By
1	1	4.00	12.57	06/15/20	06/18/20	7	54,380	4,330	2	RES
1	2	4.00	12.57	06/15/20	07/09/20	28				
1	3	4.00	12.57	06/15/20	07/09/20	28				
1	4	4.00	12.57	06/15/20	07/09/20	28				
1	5			06/15/20		Hold				

Initial Cure: Onsite Cooler

Final Cure: Moist Room

Comments: No Specs On Site.

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.: Damien McKnight


Reported To:

Contractor: Axiom Northwest Construction

Report Distribution:

(1) Axiom Northwest Construction, Inc.,
norm@axiomnw.com

Reviewed By:


Feras El-Ghussein
Project Manager

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

Report Number: 02191565.0048
Service Date: 06/11/20
Report Date: 07/15/20 Revision 1 - 28-day results
Task: 09 - Portland Cement Concrete Testing - Building Elements

Terracon

15620 W 113th St
Lenexa, KS 66219-5102
913-492-7777

Client

Axiom Northwest Construction, Inc.
Attn: Norm Hellings
2232 Broadway
Suite 101
Everett, WA 98201

Project

DCI - Lee's Summit
2001 Shamrock Rd
Lee's Summit, MO

Project Number: 02191565

Material Information

Specified Strength: 4,000 psi @ 28 days

Mix ID: KC4KDM60Q
Supplier: Geiger
Batch Time: 0917 **Plant:** Lee's Summit
Truck No.: 453 **Ticket No.:** 806504

Sample Information

Sample Date: 06/11/20 **Sample Time:** 0952
Sampled By: Damien McKnight
Weather Conditions: Clear
Accumulative Yards: 6 **Batch Size (cy):** 6
Placement Method: Direct Discharge
Water Added Before (gal): 0
Water Added After (gal): 0
Sample Location: Approximately 50 feet N. of 1st St on Pryor Rd, NE corner of slab

Placement Location: Sidewalk slab on grade located approximately 50 feet N. of 1st St on Pryor Rd,

Field Test Data

Test	Result	Specification
Slump (in):	4 1/2	
Air Content (%):	5.9	
Concrete Temp. (F):	81	
Ambient Temp. (F):	78	
Plastic Unit Wt. (pcf):	143.6	
Yield (Cu. Yds.):		

Laboratory Test Data

Set No.	Specimen ID	Avg Diam. (in)	Area (sq in)	Date Received	Date Tested	Age at Test (days)	Maximum Load (lbs)	Compressive Strength (psi)	Fracture Type	Tested By
1	1	4.00	12.57	06/15/20	06/18/20	7	54,380	4,330	2	RES
1	2	4.00	12.57	06/15/20	07/09/20	28	70,270	5,590	2	RES
1	3	4.00	12.57	06/15/20	07/09/20	28	71,960	5,730	3	RES
1	4	4.00	12.57	06/15/20	07/09/20	28	67,550	5,380	3	RES
Average (28 days)								5,560		
1	5			06/15/20		Hold				

Initial Cure: Onsite Cooler

Final Cure: Moist Room

Comments: Average compressive strength of 28 day cylinders complies with the specified strength.

No Specs On Site.

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.: Damien McKnight

Reported To:

Contractor: Axiom Northwest Construction

Report Distribution:

(1) Axiom Northwest Construction, Inc.,
norm@axiomnw.com

Reviewed By:


Feras El-Ghasseni
Project Manager

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: 02191565.0051

Service Date: 07/07/20

Report Date: 07/17/20

Task: 09 - Portland Cement Concrete Testing - Building Elements

15620 W 113th St

Lenexa, KS 66219-5102

913-492-7777

Client

Axiom Northwest Construction, Inc.
Attn: Norm Hellings
2232 Broadway
Suite 101
Everett, WA 98201

Project

DCI - Lee's Summit
2001 Shamrock Rd
Lee's Summit, MO

Project Number: 02191565

Material Information

Specified Strength: 4,000 psi @ 28 days

Mix ID:

Supplier:

Batch Time: 0530

Truck No.: 467

Plant:

Ticket No.: 808400

Sample Information

Sample Date:

07/07/20

Sample Time:

Sampled By:

Ron Scott

Weather Conditions:

Partly cloudy

Accumulative Yards:

10

Batch Size (cy): 10

Placement Method:

Pump

Water Added Before (gal):

5

Water Added After (gal):

0

Sample Location:

SW corner of slab. 5 yds east of west wall.

Placement Location:

Slab on grade; interior floor

Field Test Data

Test	Result	Specification
Slump (in):	5 3/4	5 - 7
Air Content (%):	2.5	0 - 3
Concrete Temp. (F):	84	
Ambient Temp. (F):	72	
Plastic Unit Wt. (pcf):		
Yield (Cu. Yds.):		

Laboratory Test Data

Set No.	Specimen ID	Avg Diam. (in)	Area (sq in)	Date Received	Date Tested	Age at Test (days)	Maximum Load (lbs)	Compressive Strength (psi)	Fracture Type	Tested By
1	1	4.00	12.57	07/09/20	07/14/20	7	57,600	4,580	2	RES
1	2	4.00	12.57	07/09/20	08/04/20	28				
1	3	4.00	12.57	07/09/20	08/04/20	28				
1	4	4.00	12.57	07/09/20	08/04/20	28				
1	5			07/09/20		Hold				

Initial Cure: Onsite Cooler

Final Cure: Moist Room

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.: Ron Scott

Reported To:

Contractor: Axiom Northwest Construction

Report Distribution:

(1) Axiom Northwest Construction, Inc.,
norm@axiomnw.com

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

Report Number: 02191565.0051
Service Date: 07/07/20
Report Date: 07/17/20
Task: 09 - Portland Cement Concrete Testing - Building Elements

Terracon

15620 W 113th St
Lenexa, KS 66219-5102
913-492-7777

Client

Axiom Northwest Construction, Inc.
Attn: Norm Hellings
2232 Broadway
Suite 101
Everett, WA 98201

Project

DCI - Lee's Summit
2001 Shamrock Rd
Lee's Summit, MO

Project Number: 02191565

Material Information

Specified Strength: 4,000 psi @ 28 days

Mix ID:

Supplier:

Batch Time: 0645

Truck No.: 377

Plant:

Ticket No.: 808415

Sample Information

Sample Date:

07/07/20

Sample Time:

Sampled By:

Ron Scott

Weather Conditions:

Partly cloudy

Accumulative Yards:

60

Batch Size (cy): 10

Placement Method:

Pump

Water Added Before (gal):

5

Water Added After (gal):

0

Sample Location:

Center of slab. About 12 yds from east wall

Placement Location:

Slab on grade; interior floor

Field Test Data

Test	Result	Specification
Slump (in):	6 1/2	5 - 7
Air Content (%):	1.9	0 - 3
Concrete Temp. (F):	83	
Ambient Temp. (F):	77	
Plastic Unit Wt. (pcf):		
Yield (Cu. Yds.):		

Laboratory Test Data

Set No.	Specimen ID	Avg Diam. (in)	Area (sq in)	Date Received	Date Tested	Age at Test (days)	Maximum Load (lbs)	Compressive Strength (psi)	Fracture Type	Tested By
2	1	4.00	12.57	07/09/20	07/14/20	7	60,220	4,790	2	RES
2	2	4.00	12.57	07/09/20	08/04/20	28				
2	3	4.00	12.57	07/09/20	08/04/20	28				
2	4	4.00	12.57	07/09/20	08/04/20	28				
2	5			07/09/20		Hold				

Initial Cure: Onsite Cooler

Final Cure: Moist Room

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.: Ron Scott

Reported To:

Contractor: Axiom Northwest Construction

Report Distribution:

(1) Axiom Northwest Construction, Inc.,
norm@axiomnw.com

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

Report Number: 02191565.0051
Service Date: 07/07/20
Report Date: 07/17/20
Task: 09 - Portland Cement Concrete Testing - Building Elements

Terracon

15620 W 113th St
Lenexa, KS 66219-5102
913-492-7777

Client

Axiom Northwest Construction, Inc.
Attn: Norm Hellings
2232 Broadway
Suite 101
Everett, WA 98201

Project

DCI - Lee's Summit
2001 Shamrock Rd
Lee's Summit, MO

Project Number: 02191565

Material Information

Specified Strength: 4,000 psi @ 28 days

Mix ID:

Supplier:

Batch Time: 0745

Truck No.: 468

Plant:

Ticket No.: 808433

Sample Information

Sample Date: 07/07/20

Sampled By: Ron Scott

Weather Conditions: Clear

Accumulative Yards: 120

Placement Method: Pump

Water Added Before (gal): 5

Water Added After (gal): 0

Sample Location: Towards NW corner of slab. 5 yds from north wall, 8 yds from east wall.

Placement Location: Slab on grade: interior floor

Sample Time:

Batch Size (cy): 10

Field Test Data

Test	Result	Specification
Slump (in):	7	5 - 7
Air Content (%):	1.4	0 - 3
Concrete Temp. (F):	85	
Ambient Temp. (F):	81	
Plastic Unit Wt. (pcf):		
Yield (Cu. Yds.):		

Laboratory Test Data

Set No.	Specimen ID	Avg Diam. (in)	Area (sq in)	Date Received	Date Tested	Age at Test (days)	Maximum Load (lbs)	Compressive Strength (psi)	Fracture Type	Tested By
3	1	4.00	12.57	07/09/20	07/14/20	7	55,190	4,390	3	RES
3	2	4.00	12.57	07/09/20	08/04/20	28				
3	3	4.00	12.57	07/09/20	08/04/20	28				
3	4	4.00	12.57	07/09/20	08/04/20	28				
3	5			07/09/20		Hold				

Initial Cure: Onsite Cooler

Final Cure: Moist Room

Comments: Not tested for plastic unit weight.
Total: 140 yds.

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.: Ron Scott


Reported To:

Contractor: Axiom Northwest Construction

Report Distribution:

(1) Axiom Northwest Construction, Inc.,
norm@axiomnw.com

Reviewed By:


Feras El-Ghussein
Project Manager

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: 02191565.0051
Service Date: 07/07/20
Report Date: 08/04/20 Revision 1 - 28-day results
Task: 09 - Portland Cement Concrete Testing - Building Elements

15620 W 113th St
Lenexa, KS 66219-5102
913-492-7777

Client

Axiom Northwest Construction, Inc.
Attn: Norm Hellings
2232 Broadway
Suite 101
Everett, WA 98201

Project

DCI - Lee's Summit
2001 Shamrock Rd
Lee's Summit, MO

Project Number: 02191565

Material Information

Specified Strength: 4,000 psi @ 28 days

Mix ID:

Supplier:

Batch Time: 0530

Truck No.: 467

Plant:

Ticket No.: 808400

Sample Information

Sample Date: 07/07/20 **Sample Time:**
Sampled By: Ron Scott
Weather Conditions: Partly cloudy
Accumulative Yards: 10 **Batch Size (cy):** 10
Placement Method: Pump
Water Added Before (gal): 5
Water Added After (gal): 0
Sample Location: SW corner of slab. 5 yds east of west wall.
Placement Location: Slab on grade; interior floor

Field Test Data

Test	Result	Specification
Slump (in):	5 3/4	5 - 7
Air Content (%):	2.5	0 - 3
Concrete Temp. (F):	84	
Ambient Temp. (F):	72	
Plastic Unit Wt. (pcf):		
Yield (Cu. Yds.):		

Laboratory Test Data

Set No.	Specimen ID	Avg Diam. (in)	Area (sq in)	Date Received	Date Tested	Age at Test (days)	Maximum Load (lbs)	Compressive Strength (psi)	Fracture Type	Tested By
1	1	4.00	12.57	07/09/20	07/14/20	7	57,600	4,580	2	RES
1	2	4.00	12.57	07/09/20	08/04/20	28	74,250	5,910	3	RES
1	3	4.00	12.57	07/09/20	08/04/20	28	76,730	6,110	3	RES
1	4	4.00	12.57	07/09/20	08/04/20	28	75,250	5,990	3	RES
Average (28 days)								6,000		
1	5			07/09/20		Hold				

Initial Cure: Onsite Cooler

Final Cure: Moist Room

Comments: Average compressive strength of 28 day cylinders complies with the specified strength. 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.: Ron Scott

Reported To:

Contractor: Axiom Northwest Construction

Report Distribution:

(1) Axiom Northwest Construction, Inc.,
norm@axiomnw.com

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: 02191565.0051
Service Date: 07/07/20
Report Date: 08/04/20 Revision 1 - 28-day results
Task: 09 - Portland Cement Concrete Testing - Building Elements

15620 W 113th St
Lenexa, KS 66219-5102
913-492-7777

Client

Axiom Northwest Construction, Inc.
Attn: Norm Hellings
2232 Broadway
Suite 101
Everett, WA 98201

Project

DCI - Lee's Summit
2001 Shamrock Rd
Lee's Summit, MO

Project Number: 02191565

Material Information

Specified Strength: 4,000 psi @ 28 days

Mix ID:

Supplier:

Batch Time: 0645

Truck No.: 377

Plant:

Ticket No.: 808415

Sample Information

Sample Date: 07/07/20

Sample Time:

Sampled By: Ron Scott

Weather Conditions: Partly cloudy

Accumulative Yards: 60

Batch Size (cy): 10

Placement Method: Pump

Water Added Before (gal): 5

Water Added After (gal): 0

Sample Location: Center of slab. About 12 yds from east wall

Placement Location: Slab on grade; interior floor

Field Test Data

Test	Result	Specification
Slump (in):	6 1/2	5 - 7
Air Content (%):	1.9	0 - 3
Concrete Temp. (F):	83	
Ambient Temp. (F):	77	
Plastic Unit Wt. (pcf):		
Yield (Cu. Yds.):		

Laboratory Test Data

Set No.	Specimen ID	Avg Diam. (in)	Area (sq in)	Date Received	Date Tested	Age at Test (days)	Maximum Load (lbs)	Compressive Strength (psi)	Fracture Type	Tested By
2	1	4.00	12.57	07/09/20	07/14/20	7	60,220	4,790	2	RES
2	2	4.00	12.57	07/09/20	08/04/20	28	76,570	6,090	2	RES
2	3	4.00	12.57	07/09/20	08/04/20	28	72,990	5,810	2	RES
2	4	4.00	12.57	07/09/20	08/04/20	28	73,540	5,850	3	RES
Average (28 days)								5,920		
2	5			07/09/20		Hold				

Initial Cure: Onsite Cooler

Final Cure: Moist Room

Comments: Average compressive strength of 28 day cylinders complies with the specified strength. 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.: Ron Scott

Reported To:

Contractor: Axiom Northwest Construction

Report Distribution:

(1) Axiom Northwest Construction, Inc.,
norm@axiomnw.com

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

Report Number: 02191565.0051
Service Date: 07/07/20
Report Date: 08/04/20 Revision 1 - 28-day results
Task: 09 - Portland Cement Concrete Testing - Building Elements

Terracon

15620 W 113th St
Lenexa, KS 66219-5102
913-492-7777

Client

Axiom Northwest Construction, Inc.
Attn: Norm Hellings
2232 Broadway
Suite 101
Everett, WA 98201

Project

DCI - Lee's Summit
2001 Shamrock Rd
Lee's Summit, MO

Project Number: 02191565

Material Information

Specified Strength: 4,000 psi @ 28 days

Mix ID:

Supplier:

Batch Time: 0745

Truck No.: 468

Plant:

Ticket No.: 808433

Sample Information

Sample Date: 07/07/20

Sample Time:

Sampled By: Ron Scott

Weather Conditions: Clear

Accumulative Yards: 120

Batch Size (cy): 10

Placement Method: Pump

Water Added Before (gal): 5

Water Added After (gal): 0

Sample Location: Towards NW corner of slab. 5 yds from north wall, 8 yds from east wall.

Placement Location: Slab on grade: interior floor

Field Test Data

Test	Result	Specification
Slump (in):	7	5 - 7
Air Content (%):	1.4	0 - 3
Concrete Temp. (F):	85	
Ambient Temp. (F):	81	
Plastic Unit Wt. (pcf):		
Yield (Cu. Yds.):		

Laboratory Test Data

Set No.	Specimen ID	Avg Diam. (in)	Area (sq in)	Date Received	Date Tested	Age at Test (days)	Maximum Load (lbs)	Compressive Strength (psi)	Fracture Type	Tested By
3	1	4.00	12.57	07/09/20	07/14/20	7	55,190	4,390	3	RES
3	2	4.00	12.57	07/09/20	08/04/20	28	74,530	5,930	2	RES
3	3	4.00	12.57	07/09/20	08/04/20	28	72,860	5,800	2	RES
3	4	4.00	12.57	07/09/20	08/04/20	28	73,990	5,890	2	RES
Average (28 days)								5,870		
3	5			07/09/20		Hold				

Initial Cure: Onsite Cooler

Final Cure: Moist Room

Comments: Average compressive strength of 28 day cylinders complies with the specified strength. Not tested for plastic unit weight.

Total: 140 yds.

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.: Ron Scott

Reported To:

Contractor: Axiom Northwest Construction

Report Distribution:

(1) Axiom Northwest Construction, Inc.,
norm@axiomnw.com

Reviewed By:


Feras El-Ghasseni
Project Manager

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

Report Number: 02191565.0059
Service Date: 08/27/20
Report Date: 09/29/20
Task: 09 - Portland Cement Concrete Testing - Building Elements

Terracon

15620 W 113th St
Lenexa, KS 66219-5102
913-492-7777

Client

Axiom Northwest Construction, Inc.
Attn: Norm Hellings
2232 Broadway
Suite 101
Everett, WA 98201

Project

DCI - Lee's Summit
2001 Shamrock Rd
Lee's Summit, MO

Project Number: 02191565

Material Information

Specified Strength:

Mix ID:

Supplier:

Batch Time:

Truck No.:

Plant:

Ticket No.:

Sample Information

Sample Date:

08/27/20

Sample Time:

Sampled By:

Contractor

Weather Conditions:

Accumulative Yards:

Batch Size (cy):

Placement Method:

Water Added Before (gal):

Water Added After (gal):

Sample Location:

Placement Location:

Field Test Data

Test	Result	Specification
------	--------	---------------

Air Content (%):

Concrete Temp. (F):

Ambient Temp. (F):

Plastic Unit Wt. (pcf):

Yield (Cu. Yds.):

Laboratory Test Data

Set No.	Specimen ID	Avg Diam. (in)	Area (sq in)	Date Received	Date Tested	Age at Test (days)	Maximum Load (lbs)	Compressive Strength (psi)	Fracture Type	Tested By
1	1	3.01	7.12	08/28/20	09/24/20	28	41,450	5,830	3	RES
1	2	3.02	7.16	08/28/20	09/24/20	28	36,040	5,030	3	RES
1	3	3.01	7.12	08/28/20	09/24/20	28	36,950	5,190	2	RES
Average (28 days)								5,350		

Initial Cure: Outside

Final Cure: Moist Room

Comments: Not tested for plastic unit weight.

Information not provided along with cylinders. Cylinders were cast with an I.D. of ~3 inches, in PVC pipes of varying lengths. The cylinders were trimmed to meet ASTM requirements.

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.: Contractor

Reported To:

Contractor: Axiom Northwest Construction

Report Distribution:

(1) Axiom Northwest Construction, Inc.,
norm@axiomnw.com

Reviewed By:


Feras El-Ghasssein
Project Manager

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

Report Number: 02191565.0063
Service Date: 08/31/20
Report Date: 09/10/20
Task: 09 - Portland Cement Concrete Testing - Building Elements

Terracon

15620 W 113th St
Lenexa, KS 66219-5102
913-492-7777

Client

Axiom Northwest Construction, Inc.
Attn: Norm Hellings
2232 Broadway
Suite 101
Everett, WA 98201

Project

DCI - Lee's Summit
2001 Shamrock Rd
Lee's Summit, MO

Project Number: 02191565

Material Information

Specified Strength: 4,000 psi @ 28 days

Mix ID: P8BC600W444
Supplier: Geiger Ready Mix
Batch Time: 1133 **Plant:**
Truck No.: 356 **Ticket No.:** 813135

Sample Information

Sample Date: 08/31/20 **Sample Time:** 1210
Sampled By: Blake Berg
Weather Conditions: Clear
Accumulative Yards: 7.5 **Batch Size (cy):** 7.5
Placement Method: Buggy
Water Added Before (gal): 10
Water Added After (gal): 0
Sample Location: Same as placement location
Placement Location: Pourbacks for column blockouts

Field Test Data

Test	Result	Specification
Slump (in):	7 1/2	Max 8
Air Content (%):	1.4	1 - 3
Concrete Temp. (F):	83	
Ambient Temp. (F):	85	
Plastic Unit Wt. (pcf):		
Yield (Cu. Yds.):	7.5	

Laboratory Test Data

Set No.	Specimen ID	Avg Diam. (in)	Area (sq in)	Date Received	Date Tested	Age at Test (days)	Maximum Load (lbs)	Compressive Strength (psi)	Fracture Type	Tested By
1	1	4.01	12.63		09/08/20	8	67,920	5,380	2	ALP
1	2	4.00	12.57		09/28/20	28				
1	3	4.00	12.57		09/28/20	28				
1	4	4.00	12.57		09/28/20	28				
1	5					Hold				

Initial Cure: See Comments

Final Cure: Moist Room

Comments: Not tested for plastic unit weight.
On site buckets filled with water

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.: Blake Berg

Reported To: JJ with Bottorff Construction

Contractor: Axiom Northwest Construction

Report Distribution:

(1) Axiom Northwest Construction, Inc.,
norm@axiomnw.com

Reviewed By:


Feras El-Ghasseni
Project Manager

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

Report Number: 02191565.0063
Service Date: 08/31/20
Report Date: 09/29/20 Revision 1 - 28-day results
Task: 09 - Portland Cement Concrete Testing - Building Elements

Terracon

15620 W 113th St
Lenexa, KS 66219-5102
913-492-7777

Client

Axiom Northwest Construction, Inc.
Attn: Norm Hellings
2232 Broadway
Suite 101
Everett, WA 98201

Project

DCI - Lee's Summit
2001 Shamrock Rd
Lee's Summit, MO

Project Number: 02191565

Material Information

Specified Strength: 4,000 psi @ 28 days

Mix ID: P8BC600W444
Supplier: Geiger Ready Mix
Batch Time: 1133 **Plant:**
Truck No.: 356 **Ticket No.:** 813135

Sample Information

Sample Date: 08/31/20 **Sample Time:** 1210
Sampled By: Blake Berg
Weather Conditions: Clear
Accumulative Yards: 7.5 **Batch Size (cy):** 7.5
Placement Method: Buggy
Water Added Before (gal): 10
Water Added After (gal): 0
Sample Location: Same as placement location
Placement Location: Pourbacks for column blockouts

Field Test Data

Test	Result	Specification
Slump (in):	7 1/2	Max 8
Air Content (%):	1.4	1 - 3
Concrete Temp. (F):	83	
Ambient Temp. (F):	85	
Plastic Unit Wt. (pcf):		
Yield (Cu. Yds.):	7.5	

Laboratory Test Data

Set No.	Specimen ID	Avg Diam. (in)	Area (sq in)	Date Received	Date Tested	Age at Test (days)	Maximum Load (lbs)	Compressive Strength (psi)	Fracture Type	Tested By
1	1	4.01	12.63	09/01/20	09/08/20	8	67,920	5,380	2	ALP
1	2	4.01	12.63	09/01/20	09/28/20	28	80,820	6,400	3	RES
1	3	4.01	12.63	09/01/20	09/28/20	28	81,830	6,480	3	RES
1	4	4.01	12.63	09/01/20	09/28/20	28	77,480	6,130	2	RES
Average (28 days)								6,340		
1	5			09/01/20		Hold				

Initial Cure: See Comments

Final Cure: Moist Room

Comments: Average compressive strength of 28 day cylinders complies with the specified strength. Not tested for plastic unit weight.

On site buckets filled with water

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.: Blake Berg

Reported To: JJ with Bottorff Construction

Contractor: Axiom Northwest Construction

Report Distribution:

(1) Axiom Northwest Construction, Inc.,
norm@axiomnw.com

Reviewed By:


Feras El-Ghasseni
Project Manager

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

Report Number: 02191565.0067
Service Date: 09/21/20
Report Date: 10/31/20
Task: 09 - Portland Cement Concrete Testing - Building Elements

Terracon

15620 W 113th St
Lenexa, KS 66219-5102
913-492-7777

Client

Axiom Northwest Construction, Inc.
Attn: Norm Hellings
2232 Broadway
Suite 101
Everett, WA 98201

Project

DCI - Lee's Summit
2001 Shamrock Rd
Lee's Summit, MO

Project Number: 02191565

Material Information

Specified Strength: 3,500 psi @ 28 days
Mix ID: A6BC517V445
Supplier: Geiger
Batch Time: 1015 Plant: Lee's Summit, MO
Truck No.: 343 Ticket No.: 814640

Sample Information

Sample Date: 09/21/20 Sample Time: 1045
Sampled By: Rigo Rodriguez
Weather Conditions: Sunny/Clear
Accumulative Yards: 16/30 Batch Size (cy): 8
Placement Method: Chute
Water Added Before (gal): 0
Water Added After (gal): 0
Sample Location: Westside sidewalk (sw corner)
Placement Location: Sidewalk

Field Test Data

Test	Result	Specification
Slump (in):	6 3/4	5 - 7
Air Content (%):	5.5	5 - 8
Concrete Temp. (F):	72	
Ambient Temp. (F):	70	
Plastic Unit Wt. (pcf):		
Yield (Cu. Yds.):		

Laboratory Test Data

Set No.	Specimen ID	Avg Diam. (in)	Area (sq in)	Date Received	Date Tested	Age at Test (days)	Maximum Load (lbs)	Compressive Strength (psi)	Fracture Type	Tested By
1	1	4.01	12.63		09/28/20	7	42,410	3,360	2	RES
1	2	4.01	12.63		09/28/20	7	42,220	3,340	2	RES
						Average (7 days)		3,350		
1	3	4.00	12.57		10/19/20	28	59,340	4,720	2	RES
1	4	4.00	12.57		10/19/20	28	59,440	4,730	2	RES
						Average (28 days)		4,730		
1	5					Hold				

Initial Cure: Outside

Final Cure: Moist Room

Comments: Average compressive strength of 28 day cylinders complies with the specified strength. Not tested for plastic unit weight.

On top of man hole

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.: Rigo Rodriguez

Reported To: JJ with Bottorff Construction

Contractor: Axiom Northwest Construction

Report Distribution:

(1) Axiom Northwest Construction, Inc.,
norm@axiomnw.com

(1) Axiom Northwest Construction, Inc.,
tiffani@axiomnw.com

Reviewed By:


Feras El-Ghasssein
Project Manager

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

Report Number: 02191565.0077
Service Date: 09/23/20
Report Date: 11/08/20
Task: 09 - Portland Cement Concrete Testing - Building Elements

Terracon

15620 W 113th St
Lenexa, KS 66219-5102
913-492-7777

Client

Axiom Northwest Construction, Inc.
Attn: Norm Hellings
2232 Broadway
Suite 101
Everett, WA 98201

Project

DCI - Lee's Summit
2001 Shamrock Rd
Lee's Summit, MO

Project Number: 02191565

Material Information

Specified Strength:

Mix ID:

Supplier:

Batch Time:

Truck No.:

Plant:

Ticket No.:

Sample Information

Sample Date:

09/23/20

Sample Time:

Sampled By:

Contractor

Weather Conditions:

Accumulative Yards:

Batch Size (cy):

Placement Method:

Water Added Before (gal):

Water Added After (gal):

Sample Location:

Placement Location:

Field Test Data

Test	Result	Specification
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Air Content (%):

Concrete Temp. (F):

Ambient Temp. (F):

Plastic Unit Wt. (pcf):

Yield (Cu. Yds.):

Laboratory Test Data

Set No.	Specimen ID	Avg Diam. (in)	Area (sq in)	Date Received	Date Tested	Age at Test (days)	Maximum Load (lbs)	Compressive Strength (psi)	Fracture Type	Tested By
1	1	4.01	12.63		10/21/20	28	83,680	6,630	2	RES
1	2	4.01	12.63		10/21/20	28	80,130	6,340	2	RES
1	3	4.01	12.63		10/21/20	28	78,250	6,200	2	RES
Average (28 days)								6,390		

Initial Cure: Outside

Final Cure: Moist Room

Comments: Not tested for plastic unit weight.

all cylinders werre cut due to improper consolidation and filling of molds. Locations of the pour are assumed to be trash enclosure footings

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.: Contractor

Reported To:

Contractor: Axiom Northwest Construction

Report Distribution:

(1) Axiom Northwest Construction, Inc.,
norm@axiomnw.com

(1) Axiom Northwest Construction, Inc.,
tiffani@axiomnw.com

Reviewed By:


Feras El-Ghasssein
Project Manager

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

Report Number: 02191565.0078
Service Date: 09/24/20
Report Date: 11/08/20
Task: 09 - Portland Cement Concrete Testing - Building Elements

Terracon

15620 W 113th St
Lenexa, KS 66219-5102
913-492-7777

Client

Axiom Northwest Construction, Inc.
Attn: Norm Hellings
2232 Broadway
Suite 101
Everett, WA 98201

Project

DCI - Lee's Summit
2001 Shamrock Rd
Lee's Summit, MO

Project Number: 02191565

Material Information

Specified Strength:

Mix ID:

Supplier:

Batch Time:

Truck No.:

Plant:

Ticket No.:

Sample Information

Sample Date:

09/24/20

Sample Time:

Sampled By:

Contractor

Weather Conditions:

Accumulative Yards:

Batch Size (cy):

Placement Method:

Water Added Before (gal):

Water Added After (gal):

Sample Location:

Placement Location:

Not provided

Field Test Data

Test	Result	Specification
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Air Content (%):

Concrete Temp. (F):

Ambient Temp. (F):

Plastic Unit Wt. (pcf):

Yield (Cu. Yds.):

Laboratory Test Data

Set No.	Specimen ID	Avg Diam. (in)	Area (sq in)	Date Received	Date Tested	Age at Test (days)	Maximum Load (lbs)	Compressive Strength (psi)	Fracture Type	Tested By
1	1	4.01	12.63		10/22/20	28	69,590	5,510	2	RES
1	2	4.01	12.63		10/22/20	28	66,130	5,240	2	RES
1	3	4.01	12.63		10/22/20	28	64,910	5,140	2	RES
Average (28 days)								5,300		

Initial Cure: Outside

Final Cure: Moist Room

Comments: Not tested for plastic unit weight.

Cylinders were cut due to improper consolidation and dimensions.

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.: Contractor

Reported To:

Contractor: Axiom Northwest Construction

Report Distribution:

(1) Axiom Northwest Construction, Inc.,
norm@axiomnw.com

(1) Axiom Northwest Construction, Inc.,
tiffani@axiomnw.com

Reviewed By:


Feras El-Ghasssein
Project Manager

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

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