

# CANCELLED SERVICE REPORT

**Report Number:** 02221356.0005  
**Service Date:** 10/27/22  
**Report Date:** 10/30/22  
**Task:** 07 - Concrete Reinforcing Steel Observation



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

## Client

Lee's Summit Medical Center  
Attn: Tim McGinnis  
2100 SE Blue Pkwy  
Lee's Summit, MO 64063

## Project

Lee's Summit Medical Center - ICU Expansion  
2100 SE Blue Parkway  
Lee's Summit, MO 64063

Project Number: 02221356

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## Cancellation Information

A Terracon Consultants, Inc. (Terracon) field representative was dispatched for reinforcing steel observation as requested by Dean Hohenberg w/ Lytle Construction. Upon our arrival on-site N/A informed our representative that our services were not needed on this date due to other reasons (see additional comments).

## Additional Comments

Contractor had left site at time of arrival

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## Services:

**Terracon Rep.:** Carl W. Creamer

**Reported To:**

**Contractor:**

**Report Distribution:**

(1) Lee's Summit Medical Center,  
Timothy.McGinnis@HCAMidwest.com

**Reviewed By:**


A handwritten signature in black ink, reading 'Leonard J. Rewerts', is written over a horizontal line.

Leonard J. Rewerts  
Senior Project Manager/Geologist

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:** 02221356.0006  
**Service Date:** 10/28/22  
**Report Date:** 10/30/22  
**Task:** 09 - Portland Cement Concrete Testing

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

## Client

Lee's Summit Medical Center  
Attn: Tim McGinnis  
2100 SE Blue Pkwy  
Lee's Summit, MO 64063

## Project

Lee's Summit Medical Center - ICU Expansion  
2100 SE Blue Parkway  
Lee's Summit, MO 64063

Project Number: 02221356

## Material Information

**Specified Strength:** 4,000 psi @ 28 days

**Mix ID:** N/A  
**Supplier:** N/A  
**Batch Time:** 1658 **Plant:** N/A  
**Truck No.:** **Ticket No.:**

## Sample Information

**Sample Date:** 10/28/22 **Sample Time:** 1659  
**Sampled By:** Kansas Testing and Engineering  
**Weather Conditions:** N/A  
**Accumulative Yards:** 3 **Batch Size (cy):** 3  
**Placement Method:** Buggy  
**Water Added Before (gal):** 0  
**Water Added After (gal):** 0  
**Sample Location:** Same  
**Placement Location:** Roof level Air Handler Slab lines xD.2 to xE.5/15.2 to 15.4

## Field Test Data

Test	Result	Specification
Slump (in):	4	
Air Content (%):		
Concrete Temp. (F):	70	
Ambient Temp. (F):	70	
Plastic Unit Wt. (pcf):		
Yield (Cu. Yds.):		

## Laboratory Test Data

Set No.	Spec ID	Cyl. Cond.	Avg Diam. (in)	Area (sq in)	Date Received	Date Tested	Age at Test (days)	Max Load (lbs)	Comp Strength (psi)	Frac Type	Tested By
1	1		4.00	12.57		11/04/22	7				
1	2		4.00	12.57		11/25/22	28				
1	3		4.00	12.57		11/25/22	28				
1	4		4.00	12.57		11/25/22	28				
1	5						Hold				

**Initial Cure:** Outside **Final Cure:** Moist Room **Sample Description:** 4-inch diameter cylinders

**Comments:** Not tested for plastic unit weight.

Note: Reported air content does not include Aggregate Correction Factor (ACF).

## 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

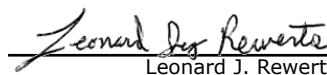
**Reported To:**

**Contractor:** JJ Martinni Concrete

## Report Distribution:

(1) Lee's Summit Medical Center,  
Timothy.McGinnis@HCAMidwest.com

**Reviewed By:**

  
Leonard J. Rewerts


Senior Project Manager/Geologist

**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:** 02221356.0006  
**Service Date:** 10/28/22  
**Report Date:** 10/31/22 Revision 1 -  
**Task:** 09 - Portland Cement Concrete Testing

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

## Client

Lee's Summit Medical Center  
Attn: Tim McGinnis  
2100 SE Blue Pkwy  
Lee's Summit, MO 64063

## Project

Lee's Summit Medical Center - ICU Expansion  
2100 SE Blue Parkway  
Lee's Summit, MO 64063

Project Number: 02221356

## Material Information

**Specified Strength:** 4,000 psi @ 28 days

**Mix ID:** LWT1  
**Supplier:** Ozark Readymix  
**Batch Time:** 1658 **Plant:** 99  
**Truck No.:** 3233 **Ticket No.:** 5015885

## Sample Information

**Sample Date:** 10/28/22 **Sample Time:** 1659  
**Sampled By:**  
**Weather Conditions:** N/A  
**Accumulative Yards:** 3 **Batch Size (cy):** 3  
**Placement Method:** Buggy  
**Water Added Before (gal):** 0  
**Water Added After (gal):** 0  
**Sample Location:** Same  
**Placement Location:** Roof level Air Handler Slab lines xD.2 to xE.5/15.2 to 15.4

## Field Test Data

Test	Result	Specification
		3 - 5

**Air Content (%):**  
**Concrete Temp. (F):**  
**Ambient Temp. (F):**  
**Plastic Unit Wt. (pcf):**  
**Yield (Cu. Yds.):**

## Laboratory Test Data

Set No.	Spec ID	Cyl. Cond.	Avg Diam. (in)	Area (sq in)	Date Received	Date Tested	Age at Test (days)	Max Load (lbs)	Comp Strength (psi)	Frac Type	Tested By
1	1		4.00	12.57	10/31/22	11/04/22	7				
1	2		4.00	12.57	10/31/22	11/25/22	28				
1	3		4.00	12.57	10/31/22	11/25/22	28				
1	4		4.00	12.57	10/31/22	11/25/22	28				
1	5				10/31/22		Hold				

**Initial Cure:** Outside

**Final Cure:** Moist Room

**Sample Description:** 4-inch diameter cylinders

**Comments:** Not tested for plastic unit weight.

Note: Reported air content does not include Aggregate Correction Factor (ACF).  
Cylinders cast by Contractor. Concrete is Lightweight

## 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:**

**Contractor:** JJ Martinni Concrete

**Report Distribution:**

(1) Lee's Summit Medical Center,  
Timothy.McGinnis@HCAMidwest.com

**Reviewed By:**

  
Leonard J. Rewerts


Senior Project Manager/Geologist

**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:** 02221356.0006  
**Service Date:** 10/28/22  
**Report Date:** 11/04/22 Revision 2 - 7-day results  
**Task:** 09 - Portland Cement Concrete Testing

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

## Client

Lee's Summit Medical Center  
Attn: Tim McGinnis  
2100 SE Blue Pkwy  
Lee's Summit, MO 64063

## Project

Lee's Summit Medical Center - ICU Expansion  
2100 SE Blue Parkway  
Lee's Summit, MO 64063

Project Number: 02221356

## Material Information

**Specified Strength:** 4,000 psi @ 28 days

**Mix ID:** LWT1  
**Supplier:** Ozark Readymix  
**Batch Time:** 1658 **Plant:** 99  
**Truck No.:** 3233 **Ticket No.:** 5015885

## Field Test Data

Test	Result	Specification
		3 - 5

**Air Content (%):**  
**Concrete Temp. (F):**  
**Ambient Temp. (F):**  
**Plastic Unit Wt. (pcf):**  
**Yield (Cu. Yds.):**

## Sample Information

**Sample Date:** 10/28/22 **Sample Time:** 1659  
**Sampled By:** Carl W. Creamer  
**Weather Conditions:** N/A  
**Accumulative Yards:** 3 **Batch Size (cy):** 3  
**Placement Method:** Buggy  
**Water Added Before (gal):** 0  
**Water Added After (gal):** 0  
**Sample Location:** Same  
**Placement Location:** Roof level Air Handler Slab lines xD.2 to xE.5/15.2 to 15.4

## Laboratory Test Data

Set No.	Spec ID	Cyl. Cond.	Avg Diam. (in)	Area (sq in)	Date Received	Date Tested	Age at Test (days)	Max Load (lbs)	Comp Strength (psi)	Frac Type	Tested By
1	1	Good	4.00	12.57	10/31/22	11/04/22	7	56,210	4,470	3	LDU
1	2		4.00	12.57	10/31/22	11/25/22	28				
1	3		4.00	12.57	10/31/22	11/25/22	28				
1	4		4.00	12.57	10/31/22	11/25/22	28				
1	5				10/31/22		Hold				

**Initial Cure:** Outside **Final Cure:** Moist Room **Sample Description:** 4-inch diameter cylinders

## Comments: Not tested for plastic unit weight.

Note: Reported air content does not include Aggregate Correction Factor (ACF).  
Cylinders cast by Contractor. Concrete is Lightweight

## 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

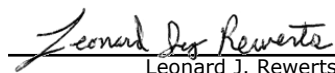
## Reported To:

**Contractor:** JJ Martinni Concrete

## Report Distribution:

(1) Lee's Summit Medical Center,  
Timothy.McGinnis@HCAMidwest.com

## Reviewed By:


  
Leonard J. Rewerts  
Senior Project Manager/Geologist

**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:** 02221356.0006  
**Service Date:** 10/28/22  
**Report Date:** 11/27/22 Revision 3 - 28-day results  
**Task:** 09 - Portland Cement Concrete Testing

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

## Client

Lee's Summit Medical Center  
Attn: Tim McGinnis  
2100 SE Blue Pkwy  
Lee's Summit, MO 64063

## Project

Lee's Summit Medical Center - ICU Expansion  
2100 SE Blue Parkway  
Lee's Summit, MO 64063

Project Number: 02221356

## Material Information

**Specified Strength:** 4,000 psi @ 28 days

**Mix ID:** LWT1  
**Supplier:** Ozark Readymix  
**Batch Time:** 1658 **Plant:** 99  
**Truck No.:** 3233 **Ticket No.:** 5015885

## Sample Information

**Sample Date:** 10/28/22 **Sample Time:** 1659  
**Sampled By:** Carl W. Creamer  
**Weather Conditions:** N/A  
**Accumulative Yards:** 3 **Batch Size (cy):** 3  
**Placement Method:** Buggy  
**Water Added Before (gal):** 0  
**Water Added After (gal):** 0  
**Sample Location:** Same  
**Placement Location:** Roof level Air Handler Slab lines xD.2 to xE.5/15.2 to 15.4

## Field Test Data

Test	Result	Specification
		3 - 5

**Air Content (%):**  
**Concrete Temp. (F):**  
**Ambient Temp. (F):**  
**Plastic Unit Wt. (pcf):**  
**Yield (Cu. Yds.):**

## Laboratory Test Data

Set No.	Spec ID	Cyl. Cond.	Avg Diam. (in)	Area (sq in)	Date Received	Date Tested	Age at Test (days)	Max Load (lbs)	Comp Strength (psi)	Frac Type	Tested By
1	1	Good	4.00	12.57	10/31/22	11/04/22	7	56,210	4,470	3	LDU
1	2	Good	4.00	12.57	10/31/22	11/25/22	28	71,070	5,660	2	LDU
1	3	Good	4.00	12.57	10/31/22	11/25/22	28	73,970	5,890	3	LDU
1	4	Good	4.00	12.57	10/31/22	11/25/22	28	74,420	5,920	3	LDU
1	5				10/31/22		Hold				

**Average (28 days)** **5,820**

**Initial Cure:** Outside **Final Cure:** Moist Room **Sample Description:** 4-inch diameter cylinders

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

Note: Reported air content does not include Aggregate Correction Factor (ACF).  
Cylinders cast by Contractor. Concrete is Lightweight

## 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

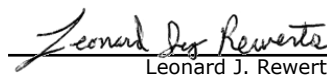
**Reported To:**

**Contractor:** JJ Martinni Concrete

## Report Distribution:

(1) Lee's Summit Medical Center,  
Timothy.McGinnis@HCAMidwest.com

**Reviewed By:**

  
Leonard J. Rewerts

Senior Project Manager/Geologist

**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 SAMPLE PICK-UP REPORT

**Report Number:** 02221356.0008  
**Service Date:** 10/31/22  
**Report Date:** 11/04/22  
**Task:** 09 - Portland Cement Concrete Testing



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

## Client

Lee's Summit Medical Center  
Attn: Tim McGinnis  
2100 SE Blue Pkwy  
Lee's Summit, MO 64063

## Project

Lee's Summit Medical Center - ICU Expansion  
2100 SE Blue Parkway  
Lee's Summit, MO 64063

Project Number: 02221356

## Sample Information

Terracon was requested to perform a sample pickup of the following materials:

Curing No.	Material Type	Sample Type	No. of Sets	Samples Per Set	Date Cast	Compressive Strength Report No.
	Concrete	Cylinder	1	5	10/28/22	.0006

## Sample Delivery

Samples were obtained and delivered to a Terracon laboratory on 10/31/2022 for testing as requested.

## Additional Comments

None

## Services:

**Terracon Rep.:** Carl W. Creamer

**Reported To:**

**Contractor:**

**Report Distribution:**

(1) Lee's Summit Medical Center,  
Timothy.McGinnis@HCAMidwest.com

**Reviewed By:**

Leonard J. Rewerts  
Senior Project Manager/Geologist

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.

# REINFORCING STEEL OBSERVATIONS REPORT

**Report Number:** 02221356.0007  
**Service Date:** 10/28/22  
**Report Date:** 10/30/22  
**Task:** 07 - Concrete Reinforcing Steel Observation



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

## Client

Lee's Summit Medical Center  
Attn: Tim McGinnis  
2100 SE Blue Pkwy  
Lee's Summit, MO 64063

## Project

Lee's Summit Medical Center - ICU Expansion  
2100 SE Blue Parkway  
Lee's Summit, MO 64063

Project Number: 02221356

## General Information

Dean Hohenberg w/ Lytle Construction requested Terracon to be on site for reinforcing steel observation of the following elements: Slab-on-deck. These elements are being constructed by JJ Martinni Concrete . The results of observation(s) for today were reported to Dean Hohenberg w/ Lytle Construction.

The construction documents referenced for this observation include: ACI Boland Structural Drawings . Permit No. N/A

## Reinforcing Steel

Terracon observed reinforcing steel detailed below for the following items (as applicable): Grade, Configuration, Size, Lap Length, Quantity, Spacing, Tying, Clearances, Steel Condition and Embedded Items.

Element	Location	Referenced Documents	Status	Comments
Slab-on-deck	(1) Roof level Air Handler Slab lines xD.2 to xE.5/15.2 to 15.4	Details 3 and 4	Complies	

## Compliance Statement

Based on our observations, reinforcing steel at the above-referenced locations appeared to be completed in general accordance with the project plans and specifications.

## Services:

**Terracon Rep.:** Carl W. Creamer

**Reported To:** Dean Hohenberg w/ Lytle Construction

**Contractor:** JJ Martinni Concrete

### Report Distribution:

(1) Lee's Summit Medical Center,  
Timothy.McGinnis@HCAMidwest.com

**Reviewed By:**

Leonard J. Rewerts  
Senior Project Manager/Geologist

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.

# **STRUCTURAL STEEL OBSERVATIONS REPORT**



**Report Number:** 02221356.0004  
**Service Date:** 10/24/22  
**Report Date:** 10/27/22  
**Task:** 13 - Structural Steel Observation

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

## **Client**

Lee's Summit Medical Center  
Attn: Tim McGinnis  
2100 SE Blue Pkwy  
Lee's Summit, MO 64063

## **Project**

Lee's Summit Medical Center - ICU Expansion  
2100 SE Blue Parkway  
Lee's Summit, MO 64063

Project Number: 02221356

## **Description of location(s) observed:**

Roof framing at gridlines B.9-G.1/14.8-16.8.

## **Observations and Comments:**

We observed the metal roof & composite deck attachments at the framing locations identified above. The attachments were visually acceptable & appeared to be installed in general accordance with the site available approved project documents.

## **Exceptions:**

None observed.

## **Services:**

**Terracon Rep.:** Duane, Matthew  
**Reported To:** Dean Hohenberg w/ Lytle Construction  
**Contractor:**  
**Report Distribution:**

(1) Lee's Summit Medical Center,  
Timothy.McGinnis@HCAMidwest.com

**Reviewed By:**

rvw2: daw

A handwritten signature in black ink, reading 'Leonard J. Rewerts', written over a horizontal line.


Leonard J. Rewerts

Senior Project Manager/Geologist

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:** 02191368.0163  
**Service Date:** 10/06/22  
**Report Date:** 12/01/22 Revision 2 - 56-day results  
**Task:** Mix 5641

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

## Client

Ozark Ready Mix Company Inc  
Attn: Steve Mauton  
PO Box 520  
Olathe, KS 66061

## Project

Ozark Ready Mix Laboratory Testing  
Various  
Multiple, KS

Project Number: 02191368

## Material Information

**Specified Strength:** 4,000 psi @ 28 days  
**Mix ID:** 5641 (68K INT)  
**Supplier:** Ozark Ready Mix  
**Batch Time:** 0830 **Plant:** Show Me Ready Mix  
**Truck No.:** 258 **Ticket No.:** 200935

## Sample Information

**Sample Date:** 09/27/22 **Sample Time:** 0848  
**Sampled By:** Client  
**Weather Conditions:** Clear  
**Accumulative Yards:** 50 **Batch Size (cy):** 10  
**Placement Method:** Direct Discharge  
**Water Added Before (gal):** 0  
**Water Added After (gal):** 0  
**Sample Location:** Show Me Ready Mix  
**Placement Location:** JJ Martiny Concrete  
2100 SE Blue Parkway  
Lees Summit, MO

## Field Test Data

Test	Result	Specification
Slump (in):	9 1/4	
Air Content (%):	2.1	
Concrete Temp. (F):	77	
Ambient Temp. (F):	55	
Plastic Unit Wt. (pcf):	147.6	
Yield (Cu. Yds.):		

## Laboratory Test Data

Set No.	Spec ID	Cyl. Cond.	Avg Diam. (in)	Area (sq in)	Date Received	Specimen Weight (lbs)	Date Tested	Age at Test (days)	Max Load (lbs)	Comp Strength (psi)	Frac Type	Tested By
1	1	Good	4.00	12.57	10/05/22	8.66	10/06/22	9	65,960	5,250	3	LDU
1	2	Good	4.00	12.57	10/05/22	8.66	10/25/22	28	78,490	6,250	2	LDU
1	3	Good	4.00	12.57	10/05/22	8.67	10/25/22	28	78,610	6,260	3	LDU
1	4	Good	4.00	12.57	10/05/22	8.68	10/25/22	28	78,440	6,240	2	LDU
Average (28 days)										6,250		
1	5	Good	4.00	12.57	10/05/22	8.60	11/22/22	56	81,180	6,460	3	LDU

**Initial Cure:** Outside **Final Cure:** Moist Room **Sample Description:** 4-inch diameter cylinders

**Comments:** Compressive strength of 56 day cylinders complies with the specified strength.

**Services:** Perform compressive strength determinations of test cylinders cast by others and delivered to the laboratory. Standard test methods for laboratory tests are ASTM C39 and C1231.

**Terracon Rep.:** Client

**Reported To:**


**Contractor:**

**Report Distribution:**

(1) Ozark Ready Mix Company Inc,  
stevem@showmreadymix.com  
(1) Ozark Ready Mix Company Inc,  
jjackson@ozarkreadymix.com

(1) Ozark Ready Mix Company Inc,  
fshilling@ozarkreadymix.com  
(1) Ozark Ready Mix Company Inc,  
kjackson@ozarkreadymix.com

**Reviewed By:**

  
Troy Bandy, P.E.  
Laboratory Manager

**Test Methods:** ASTM C39, 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.