ENTECH
ENGINEERING, INC.
505 ELKTON DRIVE
COLORADO SPRINGS, CO 80907
PHONE (719) 531-5599

October 17, 2024

Araco Enterprises LLC
3390 Drennan Industrial Loop South
Colorado Springs, CO 240399

Attn: Jim Howard

Re: Excavation Observation – Retaining Wall
7330 Southmoor Drive
Fountain, Colorado
Entech Job No. 240399

Dear Mr. Howard:

Personnel of Entech Engineering, Inc. (Entech) performed an excavation observation for the retaining wall at the address referenced above. The specific findings for this site are presented in this letter.

Entech performed a soil, geology, and geologic hazard study at the above-referenced address and the results are presented in our Soil, Geology, and Geologic Hazard Study Report dated July 25, 2018, Entech Job No. 171216.

The following recommendations are based on conditions observed on October 4, 2024. Entech should be notified if any changes in conditions are encountered or if the excavation depth or location should change.

Soil types observed in the retaining wall excavation were found to consist of silty to clayey sand fill overlying native silty sand. An allowable bearing capacity on the order of 2,400 pounds per square foot (psf) with an equivalent hydrostatic fluid pressure (in the active state) of 45 pounds per cubic foot (pcf) is recommended for the soils encountered on this site.

A retaining wall is anticipated for this site. The retaining wall should be constructed according to the plans by others.

Recommendations regarding floor slabs, surface drainage, concrete, etc. contained in the Soil, Geology, and Geologic Hazard Study Report provided by Entech remain valid and should be followed.

ENTECH ENGINEERING, INC.

We trust that this has provided you with the information you require. If you have any questions or need additional information, please do not hesitate to contact us.

Respectfully Submitted,

ENTECH ENGINEERING, INC.

Daniel P. Stegman
Geotechnical Engineering Staff

Reviewed by:

COLORADO LICENSED
ROBERT PAUL JAQUET
58495
PROFESSIONAL ENGINEER

Digitally signed by Robert P. Jaquet
Date: 10/18/24

Robert P. Jaquet, P.E.
Project Engineer

RPJ/ed

Encl.
F:\AA Projects\2024\240399-Araco-7330 Southmoor Dr-ConMat\240399 - eo - retwall.docx

# Foundation Wall Observation

Entech Engineering
505 Elkton Dr.
Colorado Springs , CO 80907
Phone: 719-531-5599

**Client:**

Araco Concrete
3390 Drennan Industrial Loop S
Colorado Springs, CO 80910

**Project:**

240399
7330 Southmoor Drive (Previously 7470 Southmoor)
7330 Southmoor Drive (Previously 7470 Southmo...
Colorado Springs, CO

| | |
|---|---|
| **Date of Observation:** | 04/01/2025 |
| **Plan Reference:** | 50013 |
| **Foundation Plan By:** | Araco Enterprises, LLC. |
| **Foundation Plan Date:** | 08/29/2024 |
| **Location:** | Northwest corner of jobsite, eastern and northern retaining walls |
| **Structure:** | Pond Area Retaining Walls |
| **Field Tech:** | Kirby Hooker |
| **Foundation Wall Approval Status:** | Foundation Reinforcement in General Conformance with Plan |
| **Ufer:** | Not Observed |
| **Reviewed by:** | Austin Nossokoff |




04/16/2025
Digitally Signed by Austin Nossokoff, PE

# Foundation Wall Observation

Entech Engineering
505 Elkton Dr.
Colorado Springs , CO 80907
Phone: 719-531-5599

**Client:**

Araco Concrete
3390 Drennan Industrial Loop S
Colorado Springs, CO 80910

**Project:**

240399
7330 Southmoor Drive (Previously 7470 Southmoor)
7330 Southmoor Drive (Previously 7470 Southmo...
Colorado Springs, CO

| | |
|---|---|
| **Date of Observation:** | 04/04/2025 |
| **Plan Reference:** | Plans Provided On-Site (No Date) |
| **Foundation Plan By:** | Paul Zertuche |
| **Foundation Plan Date:** | 04/04/2025 |
| **Location:** | North Pond |
| **Structure:** | Pond Walls |
| **Field Tech:** | Ross Lewis |
| **Foundation Wall Approval Status:** | Foundation Reinforcement in General Conformance with Plan |
| **Ufer:** | Not Observed |
| **Reviewed by:** | Austin Nossokoff |




04/16/2025
Digitally Signed by Austin Nossokoff, PE

# Concrete Test

Entech Engineering
505 Elkton Dr.
Colorado Springs , CO 80907
Phone: 719-531-5599

**Client:**
Araco Concrete
3390 Drennan Industrial Loop S
Colorado Springs, CO 80910

**Project:**
240399
7330 Southmoor Drive (Previously 7470 Southmoor)
7330 Southmoor Drive (Previously 7470 Southmoor)
Colorado Springs, CO

**Set #:** 8 **Sample #:** 3813 **Placement Date:** 04/04/2025 **Technician:** Ross Lewis **Weather Conditions:** Partly Cloudy **Air Temp (°F):** 55

**Contractor:** Araco **Supplier:** Holcim **Mix Design:** T34592110 **Specified Strength (psi):** 4500

**Placement Location:** Building Exterior - Foundation Wall **Location Details:** From the northwest corner of the pond, 50 feet south.

## PLACEMENT DATA

| Set # | Truck # Ticket # | Load Vol (yd³) | Slump (in) | Air Content (%) | Unit Weight (lb/ft³) | Concrete Temp (°F) | Air Temp (°F) |
|---|---|---|---|---|---|---|---|
| 8 | 44<br>86759609 | 10.00 | Slump: 5<br>Spec: 4 - 6 | Result: 7<br>Spec.: 5 - 8 | 142.8 | 70 | 55 |

## STRENGTH DATA

| Set / Test | Age (days) | Test Date | Strength (psi) | Fracture Pattern |
|---|---|---|---|---|
| 8 / 13006 | 7 | 04/11/2025 | 4540 | Type 3 |

04/16/2025
Reviewed by: Dylan Gassmann, PE

ENTECH ENGINEERING, INC.

# Concrete Test

Entech Engineering
505 Elkton Dr.
Colorado Springs , CO 80907
Phone: 719-531-5599

**Client:**

Araco Concrete
3390 Drennan Industrial Loop S
Colorado Springs, CO 80910

**Project:**

240399
7330 Southmoor Drive (Previously 7470 Southmoor)
7330 Southmoor Drive (Previously 7470 Southmoor)
Colorado Springs, CO

**Set #:** 6 **Sample #:** 3808 **Placement Date:** 04/04/2025 **Technician:** Ross Lewis **Weather Conditions:** Cloudy **Air Temp (°F):** 28

**Contractor:** Araco **Supplier:** Holcim **Mix Design:** 25002010 **Specified Strength (psi):** 5000

**Placement Location:** Building Interior - Slab on Deck **Location Details:** From the northeast corner of 7330 Southmoor Drive, 15 feet south. **Lat/Long:** 38.725156 / -104.7254987

## PLACEMENT DATA

| Set # | Truck # Ticket # | Load Vol (yd³) | Slump (in) | Air Content (%) | Unit Weight (lb/ft³) | Concrete Temp (°F) | Air Temp (°F) |
|---|---|---|---|---|---|---|---|
| 6 | 44<br>86759596 | 10.00 | Slump: 5<br>Spec: 5 - 7 | Result: 2.5<br>Spec.: 0 - 3 | 148.8 | 70 | 28 |

## STRENGTH DATA

| Set / Test | Age (days) | Test Date | Strength (psi) | Fracture Pattern |
|---|---|---|---|---|
| 6 / 12998 | 7 | 04/11/2025 | 5980 | Type 2 |

04/16/2025
Reviewed by: Dylan Gassmann, PE

# Drain Observation

Entech Engineering
505 Elkton Dr.
Colorado Springs , CO 80907
Phone: 719-531-5599

**Client:**

Araco Concrete
3390 Drennan Industrial Loop S
Colorado Springs, CO 80910

**Project:**

240399
7330 Southmoor Drive (Previously 7470 Southmoor)
7330 Southmoor Drive (Previously 7470 Southmo...
Colorado Springs, CO

| | |
|---|---|
| **Date of Observation:** | 11/05/2024 |
| **Drain Location** | Exterior |
| **Drain Pipe Size (inches):** | 4.000 |
| **Pipe:** | Other Pipe Type<br>Flexible |
| **Gravel Type:** | 1/2 - Inch |
| **Polyethylene Membrane:** | Observed |
| **Synthetic Filter Fabric:** | Observed |
| **Waterproof/Dampproof Material:** | Observed |
| **Drain Outlet:** | Gravity, Daylight |
| **Field Tech:** | Ross Lewis |
| **Perimeter Foundation Drain Approval Status:** | Approved |
| **Reviewed By:** | Austin Nossokoff |




11/07/2024
Digitally Signed by Austin Nossokoff, PE

# Concrete Test

Entech Engineering
505 Elkton Dr.
Colorado Springs , CO 80907
Phone: 719-531-5599

**Client:**

Araco Concrete
3390 Drennan Industrial Loop S
Colorado Springs, CO 80910

**Project:**

240399
7330 Southmoor Drive (Previously 7470 Southmoor)
7330 Southmoor Drive (Previously 7470 Southmoor)
Colorado Springs, CO

**Set #:** 3 **Sample #:** 3482 **Placement Date:** 02/26/2025 **Technician:** Andrew Keeton **Weather Conditions:** Sunny **Air Temp (°F):** 53

**Contractor:** Araco **Supplier:** Holcim **Mix Design:** T34592110 **Specified Strength (psi):** 4500

**Placement Location:** Other **Location Details:** Trickle channel footer; west leg, 15' South of North end **Lat/Long:** 38.7260464 / -104.7268108

## PLACEMENT DATA

| Set # | Truck # Ticket # | Load Vol (yd³) | Slump (in) | Air Content (%) | Unit Weight (lb/ft³) | Concrete Temp (°F) | Air Temp (°F) |
|---|---|---|---|---|---|---|---|
| 3 | 346<br>86748547 | 10.00 | Slump: 5<br>Spec: 4 - 6 | Result: 7<br>Spec.: 5 - 8 | 138.5 | 77 | 53 |

## STRENGTH DATA

| Set / Test | Age (days) | Test Date | Strength (psi) | Fracture Pattern |
|---|---|---|---|---|
| 3 / 11942 | 7 | 03/05/2025 | 3630 | Type 3 |
| 3 / 11943 | 28 | 03/26/2025 | 4380 | Type 5 |
| 3 / 11944 | 56 | 04/23/2025 | 4770 | Type 3 |
| 3 / 11945 | 56 | 04/23/2025 | 4970 | Type 3 |

Average **Strength (psi):** 7 Day - 3640 psi, 28 Day - 4380 psi, 56 Day - 4870 psi

04/24/2025
Reviewed by: Dylan Gassmann, PE

# Concrete Test

Entech Engineering
505 Elkton Dr.
Colorado Springs , CO 80907
Phone: 719-531-5599

**Client:**
Araco Concrete
3390 Drennan Industrial Loop S
Colorado Springs, CO 80910

**Project:**
240399
7330 Southmoor Drive (Previously 7470 Southmoor)
7330 Southmoor Drive (Previously 7470 Southmoor)
Colorado Springs, CO

**Set #:** 4 **Sample #:** 3590 **Placement Date:** 03/11/2025 **Technician:** Ross Lewis **Weather Conditions:** Sunny **Air Temp (°F):** 49

**Contractor:** Araco **Supplier:** Holcim **Mix Design:** T44182110 **Specified Strength (psi):** 4000

**Placement Location:** Building Exterior - Foundation Wall **Location Details:** 10' West off Southeast corner of pond **Lat/Long:** 38.7261253 / -104.7265743

## PLACEMENT DATA

| Set # | Truck # Ticket # | Load Vol (yd³) | Slump (in) | Air Content (%) | Unit Weight (lb/ft³) | Concrete Temp (°F) | Air Temp (°F) |
|---|---|---|---|---|---|---|---|
| 4 | 29<br>86759116 | 10.00 | Slump: 7 1/4<br>Spec: 6 - 8 | Result: 6.7<br>Spec.: 5 - 8 | 139.2 | 78 | 49 |

## STRENGTH DATA

| Set / Test | Age (days) | Test Date | Strength (psi) | Fracture Pattern |
|---|---|---|---|---|
| 4 / 12296 | 7 | 03/18/2025 | 3840 | Type 2 |
| 4 / 12297 | 28 | 04/08/2025 | 4710 | Type 3 |
| 4 / 12298 | 28 | 04/08/2025 | 5120 | Type 2 |
| 4 / 12299 | 28 | 04/08/2025 | 4950 | Type 2 |

Average **Strength (psi):** 7 Day - 3840 psi, 28 Day - 4930 psi

04/11/2025
Reviewed by: Dylan Gassmann, PE

# Concrete Test

Entech Engineering
505 Elkton Dr.
Colorado Springs , CO 80907
Phone: 719-531-5599

**Client:**
Araco Concrete
3390 Drennan Industrial Loop S
Colorado Springs, CO 80910

**Project:**
240399
7330 Southmoor Drive (Previously 7470 Southmoor)
7330 Southmoor Drive (Previously 7470 Southmoor)
Colorado Springs, CO

**Set #:** 5 **Sample #:** 3784 **Placement Date:** 04/01/2025 **Technician:** Kirby Hooker **Weather Conditions:** Cloudy / Rain **Air Temp (°F):** 48

**Contractor:** Araco **Supplier:** Holcim **Mix Design:** T14082110 **Specified Strength (psi):** 4000

**Placement Location:** Building Exterior - Retaining Wall **Location Details:** North and east retaining walls for pond area in northwest corner of jobsite **Lat/Long:** 38.7253849 / -104.7261442

## PLACEMENT DATA

| Set # | Truck # Ticket # | Load Vol (yd³) | Slump (in) | Air Content (%) | Unit Weight (lb/ft³) | Concrete Temp (°F) | Air Temp (°F) |
|---|---|---|---|---|---|---|---|
| 5 | 82<br>86631241 | 10.00 | Slump: 3 1/2<br>Spec: 3 - 5 | Result: 5.2<br>Spec.: 4 - 6 | 146.8 | 75 | 48 |

## STRENGTH DATA

| Set / Test | Age (days) | Test Date | Strength (psi) | Fracture Pattern |
|---|---|---|---|---|
| 5 / 12915 | 7 | 04/08/2025 | 4880 | Type 3 |

04/09/2025
Reviewed by: Dylan Gassmann, PE

ENTECH ENGINEERING, INC.

Entech Engineering
505 Elkton Dr.
Colorado Springs , CO 80907
Phone: 719-531-5599

# Concrete Test

**Client:**

Araco Concrete
3390 Drennan Industrial Loop S
Colorado Springs, CO 80910

**Project:**

240399
7330 Southmoor Drive (Previously 7470 Southmoor)
7330 Southmoor Drive (Previously 7470 Southmoor)
Colorado Springs, CO

**Set #:** 3 **Sample #:** 3482 **Placement Date:** 02/26/2025 **Technician:** Andrew Keeton **Weather Conditions:** Sunny **Air Temp (°F):** 53

**Contractor:** Araco **Supplier:** Holcim **Mix Design:** T34592110 **Specified Strength (psi):** 4500

**Placement Location:** Other **Location Details:** Trickle channel footer; west leg, 15' South of North end **Lat/Long:** 38.7260464 / -104.7268108

## PLACEMENT DATA

| Set # | Truck # Ticket # | Load Vol (yd³) | Slump (in) | Air Content (%) | Unit Weight (lb/ft³) | Concrete Temp (°F) | Air Temp (°F) |
|---|---|---|---|---|---|---|---|
| 3 | 346<br>86748547 | 10.00 | Slump: 5<br>Spec: 4 - 6 | Result: 7<br>Spec.: 5 - 8 | 138.5 | 77 | 53 |

## STRENGTH DATA

| Set / Test | Age (days) | Test Date | Strength (psi) | Fracture Pattern |
|---|---|---|---|---|
| 3 / 11942 | 7 | 03/05/2025 | 3630 | Type 3 |
| 3 / 11943 | 28 | 03/26/2025 | 4380 | Type 5 |

Average **Strength (psi):** 7 Day - 3640 psi, 28 Day - 4380 psi

**56 Day Breaks will be provided when available.**

03/27/2025
Reviewed by: Dylan Gassmann, PE

# Concrete Test

Entech Engineering
505 Elkton Dr.
Colorado Springs , CO 80907
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**Client:**
Araco Concrete
3390 Drennan Industrial Loop S
Colorado Springs, CO 80910

**Project:**
240399
7330 Southmoor Drive (Previously 7470 Southmoor)
7330 Southmoor Drive (Previously 7470 Southmoor)
Colorado Springs, CO

**Set #:** 4 **Sample #:** 3590 **Placement Date:** 03/11/2025 **Technician:** Ross Lewis **Weather Conditions:** Sunny **Air Temp (°F):** 49

**Contractor:** Araco **Supplier:** Holcim **Mix Design:** T44182110 **Specified Strength (psi):** 6500

**Placement Location:** Building Exterior - Foundation Wall **Location Details:** 10' West off Southeast corner of pond **Lat/Long:** 38.7261253 / -104.7265743

## PLACEMENT DATA

| Set # | Truck # Ticket # | Load Vol ($yd^3$) | Slump (in) | Air Content (%) | Unit Weight ($lb/ft^3$) | Concrete Temp (°F) | Air Temp (°F) |
|---|---|---|---|---|---|---|---|
| 4 | 29<br>86759116 | 10.00 | Slump: 7 1/4<br>Spec: 6 - 8 | Result: 6.7<br>Spec.: 5 - 8 | 139.2 | 78 | 49 |

## STRENGTH DATA

| Set / Test | Age (days) | Test Date | Strength (psi) | Fracture Pattern |
|---|---|---|---|---|
| 4 / 12296 | 7 | 03/18/2025 | 3840 | Type 2 |

03/18/2025
Reviewed by: Dylan Gassmann, PE

# Foundation Wall Observation

Entech Engineering
505 Elkton Dr.
Colorado Springs , CO 80907
Phone: 719-531-5599

**Client:**

Araco Concrete
3390 Drennan Industrial Loop S
Colorado Springs, CO 80910

**Project:**

240399
7330 Southmoor Drive (Previously 7470 Southmoor)
7330 Southmoor Drive (Previously 7470 Southmo...
Colorado Springs, CO

| | |
|---|---|
| **Date of Observation:** | 03/11/2025 |
| **Plan Reference:** | Plans Provided On-Site (No Date) |
| **Foundation Plan By:** | Paul Zertche |
| **Foundation Plan Date:** | 03/11/2025 |
| **Location:** | Eastern Half of Walls |
| **Structure:** | Pond Wall |
| **Field Tech:** | Ross Lewis |
| **Foundation Wall Approval Status:** | Foundation Reinforcement in General Conformance with Plan |
| **Ufer:** | Not Observed |
| **Reviewed by:** | Austin Nossokoff |




03/11/2025
Digitally Signed by Austin Nossokoff, PE

# Soil Density Report

Entech Engineering
505 Elkton Dr.
Colorado Springs , CO 80907
Phone: 719-531-5599

**Client:**

Araco Concrete
3390 Drennan Industrial Loop S
Colorado Springs, CO 80910

**Project:**

240399
7330 Southmoor Drive (Previously 7470 Southmoor)
7330 Southmoor Drive (Previously 7470 Southmoor)
Colorado Springs, CO

**Test Results**

| Subject / Overall Test # | Test Location | Elevation (feet) | Reference | Test Date | Proctor ID | In Place Moist. (%) | In Place Dry Density (pcf) | Percent Comp. | Min Comp. (%) | Opt. Moisture Tolerance (%) | Rem. Code | Retest Of | Field Tech |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 / 8 | Footing/Foundation Subgrade: 15' west & 10' south of the northeast corner of the pond. | - | At Grade | 02/24/2025 | P3 | 7.8 | 111.5 | 97 | 95 | -2 / 2 | DP/MP | | RL |
| 4 / 9 | Footing/Foundation Subgrade: 3' south & 10' east of the northwest corner of the pond. | - | At Grade | 02/25/2025 | P3 | 5.2 | 113.8 | 99 | 95 | -2 / 2 | DP/MP | | RL |
| 5 / 10 | Footing/Foundation Subgrade: 5' north & 5' east of the southwest corner of the pond. | - | At Grade | 02/25/2025 | P3 | 6.8 | 114.4 | 100 | 95 | -2 / 2 | DP/MP | | RL |
| 6 / 11 | Footing/Foundation Subgrade: 5' north & 35' west of the southeast corner of the pond. | - | At Grade | 02/25/2025 | P3 | 8.3 | 112.1 | 98 | 95 | -2 / 2 | DP/MP | | RL |

**Remarks**

DP/MP : Density Pass / Moisture Pass

**Comments**

Tests are "Direct Transmission" (Method A). Gauge calibration data on file with the testing Agency.

**Proctor Data**

| Proctor ID | Method | Soil Classification | Optimum Moisture (%) | Maximum Dry Density (pcf) |
|---|---|---|---|---|
| P3 | ASTM D1557 - A | SW | 6.9 | 114.6 |

03/07/2025
Reviewed by: Joey Goode, PE

# Concrete Test

Entech Engineering
505 Elkton Dr.
Colorado Springs , CO 80907
Phone: 719-531-5599

**Client:**
Araco Concrete
3390 Drennan Industrial Loop S
Colorado Springs, CO 80910

**Project:**
240399
7330 Southmoor Drive (Previously 7470 Southmoor)
7330 Southmoor Drive (Previously 7470 Southmoor)
Colorado Springs, CO

**Set #:** 3 **Sample #:** 3482 **Placement Date:** 02/26/2025 **Technician:** Andrew Keeton **Weather Conditions:** Sunny **Air Temp (°F):** 53

**Contractor:** Araco **Supplier:** Holcim **Mix Design:** T34592110 **Specified Strength (psi):** 4500

**Placement Location:** Other **Location Details:** Trickle channel footer; west leg, 15' South of North end **Lat/Long:** 38.7260464 / -104.7268108

## PLACEMENT DATA

| Set # | Truck # Ticket # | Load Vol (yd³) | Slump (in) | Air Content (%) | Unit Weight (lb/ft³) | Concrete Temp (°F) | Air Temp (°F) |
|---|---|---|---|---|---|---|---|
| 3 | 346<br>86748547 | 10.00 | Slump: 5<br>Spec: 4 - 6 | Result: 7<br>Spec.: 5 - 8 | 138.5 | 77 | 53 |

## STRENGTH DATA

| Set / Test | Age (days) | Test Date | Strength (psi) | Fracture Pattern |
|---|---|---|---|---|
| 3 / 11942 | 7 | 03/05/2025 | 3630 | Type 3 |

03/05/2025
Reviewed by: Dylan Gassmann, PE

# Concrete Test

Entech Engineering
505 Elkton Dr.
Colorado Springs , CO 80907
Phone: 719-531-5599

**Client:**

Araco Concrete
3390 Drennan Industrial Loop S
Colorado Springs, CO 80910

**Project:**

240399
7330 Southmoor Drive (Previously 7470 Southmoor)
7330 Southmoor Drive (Previously 7470 Southmoor)
Colorado Springs, CO

**Set #:** 2 **Sample #:** 3100 **Placement Date:** 12/06/2024 **Technician:** Matt Spring **Weather Conditions:** Sunny **Air Temp (°F):** 55

**Contractor:** Araco **Supplier:** Holcim **Mix Design:** T34592110 **Specified Strength (psi):** 4500

**Placement Location:** Curb & Gutter **Location Details:** Southeast corner of Southmoor Ln and Southmoor Dr, 50' East and 20' South **Lat/Long:** 38.7252249 / -104.724843

## PLACEMENT DATA

| Set # | Truck # Ticket # | Load Vol (yd³) | Slump (in) | Air Content (%) | Unit Weight (lb/ft³) | Concrete Temp (°F) | Air Temp (°F) |
|---|---|---|---|---|---|---|---|
| 2 | 8<br>86758176 | 10.00 | Slump: 3 1/2<br>Spec: 3 - 5 | Result: 5.5<br>Spec.: 5 - 8 | 142.0 | 80 | 55 |

## STRENGTH DATA

| Set / Test | Age (days) | Test Date | Strength (psi) | Fracture Pattern |
|---|---|---|---|---|
| 2 / 10665 | 7 | 12/13/2024 | 4620 | Type 2 |
| 2 / 10666 | 28 | 01/03/2025 | 5140 | Type 5 |
| 2 / 10667 | 28 | 01/03/2025 | 5030 | Type 5 |
| 2 / 10668 | 28 | 01/03/2025 | 4980 | Type 5 |

Average **Strength (psi):** 7 Day - 4620 psi, 28 Day - 5050 psi

01/06/2025
Reviewed by: Dylan Gassmann, PE

# Concrete Test

Entech Engineering
505 Elkton Dr.
Colorado Springs , CO 80907
Phone: 719-531-5599

**Client:**
Araco Concrete
3390 Drennan Industrial Loop S
Colorado Springs, CO 80910

**Project:**
240399
7330 Southmoor Drive (Previously 7470 Southmoor)
7330 Southmoor Drive (Previously 7470 Southmoor)
Colorado Springs, CO

**Set #:** 2 **Sample #:** 3100 **Placement Date:** 12/06/2024 **Technician:** Matt Spring **Weather Conditions:** Sunny **Air Temp (°F):** 55

**Contractor:** Araco **Supplier:** Holcim **Mix Design:** T34592110 **Specified Strength (psi):** 4500

**Placement Location:** Curb & Gutter **Location Details:** Southeast corner of Southmoor Ln and Southmoor Dr, 50' East and 20' South **Lat/Long:** 38.7252249 / -104.724843

## PLACEMENT DATA

| Set # | Truck # Ticket # | Load Vol (yd³) | Slump (in) | Air Content (%) | Unit Weight (lb/ft³) | Concrete Temp (°F) | Air Temp (°F) |
|---|---|---|---|---|---|---|---|
| 2 | 8<br>86758176 | 10.00 | Slump: 3 1/2<br>Spec: 3 - 5 | Result: 5.5<br>Spec.: 5 - 8 | 142.0 | 80 | 55 |

## STRENGTH DATA

| Set / Test | Age (days) | Test Date | Strength (psi) | Fracture Pattern |
|---|---|---|---|---|
| 2 / 10665 | 7 | 12/13/2024 | 4620 | Type 2 |

12/23/2024
Reviewed by: Dylan Gassmann, PE