

LETTER OF TRANSMITTAL

DATE: 09/04/2025

то: М	anuel Maldon	ado		ATTENTION: Manu	el Maldonado
Archite	ect / Principal			RE:	
Ordiz-l	Melby Archited	cts t 280, Bakersfield	CA. 93309	JOB NO: <u>2037</u>	
WE ARE	SENDING YOU:				
\bowtie	Attached Shop Drawings	☐ Mailed ☐ Prints	Faxed Plans	Hand Delivered Samples	
	Copy of Letter	Change Order	☐ Other	Specifications	
COPIES	DATE	NO.		DESCRIPTION	
1	09/04/2025	6 Conc	rete Mix Design	for Manhole Base	
THESE A	RE TRANSMITTED	as checked below:			
X	For Approval & Execution	Approved as Submitted	Resubmit Co	pies for Approval	
	For Your Use	Approved as Noted	Submit Copic	es for Distributions	
	As Requested	Returned for Corrections	Return Corre	ected Prints	
	For Review & & Comment			X REVIEWED REVISE AND RESUBMIT	NOT ACCEPTABLE FOR RECORD ONLY
	FOR BIDS DUE:			REVIEWED AND CORRECTS The review of Shop Drawings and/or Sub	
REMAR	KS:			with the design concept of the Project and information given in the contract documer for dimension confirmation and correlation that pertains solely to the fabrication proc construction, and for coordination of the withe project. The review of these Shop Dranot relieve the Contractor from complianc Documents.	d compliance with the this. Contractor is responsible to at the job site, for information esses or to techniques of vork of all trades involved in twings and/or Submittals does
				Ordiz-Melby Archi	tects, Inc.
				BY Mund Mhhhh	DATE 09/09/2025
СОРУ Т	O:		SIGNED: Jesse E	Baeza, Project Manager	

Your Name, Title



Metro Ready Mix Company 1635 James Road P.O. Box 80487 Bakersfield, CA. 93380-0847 661-399-9144 (Office) 661-399-9195 (Fax) 661-399-9140 (Dispatch)

Mix Design Submittal

Rock %: 55

Date: 9/4/2025 Sand %: 45

Project: Fletcher ES Unit Weight (lbs.): 151.60

Customer: SW Construction Slump +-1": 4
Location: 9801 Highland Knolls Air % range: 1.5

Strength (psi): 3500 Placement: Tailgate/Pump

Mix ID: 628CT w/c ratio: 0.49
Plant: James Road Cementitious Content (sacks): 6.28

Usage: Manhole base (cast in place)

Cementitious Content (sacks): 5.20

Cementitious Content (lbs): 590

Materials		%	Nt. (lbs	SpGr	Cu.Ft.	Source	Spec.
Portland Cement	Type II/V	100	590	3.15	3.00	National Cement Company	ASTM C 150
Flyash (Class F)		0	0	2.16	0.00	Salt River Materials Group (SRMG)	ASTM C 618
1" X #4 Rock		55	1798	2.770	10.40	Griffith Company (Edmonston Plant)	ASTM C 33
3/8" X #8 Rock		0	0	2.730	0.00	Griffith Company (Edmonston Plant)	ASTM C 33
Washed Concret	e Sand	45	1413	2.660	8.51	Griffith Company (Edmonston Plant)	ASTM C 33
Water	(Gals)	35	292	1	4.67		
Air Content %				0.41	0.41		
т	otal		4093		27.00		

Admixtures Oz/cwt Ozs/yd Source S	Врес.
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We guarantee that the strengths produced by this mix design will meet the criteria of ACI 318, "Building Code and Requirements for Reinforced Concrete, and ACI 301, (Specification for Structural Concrete Buildings", when sampling and specimen preparation are performed by personnel certified as technicians by ACI in full accord with applicable ASTM standards. ASTM C 94 (para. 6.1), ACI 318-14 (para. 26.12.1.1), and ACI 301-10 (Sec. 1.6) requires that the Ready Mix Producer be given copies of all reports of acceptance tests in a timely manner or upon request.



DAVID CHANDLER

Full Gradiation Analysis

Date: 9/4/2025
Project: Fletcher ES

Strength (psi): 3500 Mix ID: 628CT

Location: 9801 Highland Knolls

1" Max

				Combined	ASTM C 33	Caltrans	Cumulative
Sieve Size	1" X #4	3/8" X #8	Sand	Passing	Spec.	Section 90	%Retained
1.5"	100	100	100	100	100	100.0	0.0
1"	98	100	100	98.9	90 100	90 - 100	1.1
3/4"	81	100	100	89.6	70 95	55 100	10.5
1/2"	50	100	100	72.5	XXXXX	XXXXXX	27.5
3/8"	29	91	100	61.0	45 70	45 75	39.1
#4	8	16	99	49.0	35 55	35 60	51.1
#8	2	2	88	40.7	27 45	27 45	59.3
#16	0	0	66	29.7	20 28	20 35	70.3
#30	0	0	42	18.9	12 27	12 25	81.1
#50	0	0	17	7.7	5 15	5 15	92.4
#100	0	0	1.3	0.6	0 5	1 8	99.4
#200	0.5	0.4	1.77	1.1		0 4	98.9
Absorbtion %	0.75	0.40			1		

% by mass 55.0 0.0 45.0

Coarseness Factor: 65.9
Workability Factor: 40.7
Paste Fraction: 26.9

Mortar Fraction: 48.8

	Mortar Fraction: 48.8							
		DET	AILED STREI	NGTH, Com	pression			
Date	Mix ID#	Slump	7 Day		28 Day	Project		
	Average:	#DIV/0!	#DIV/0!		#DIV/0!			
	Average.	#DIV/0!	#DI V/O!		#DIV/0:			





National Cement Company of California, Inc.



LEBEC Plant

We certify that the below described Hydraulic Portland Cement, at the time of shipment and Manufactured Production of Lot 25-142 meets the Chemical and Physical requirements of TYPE II & V as per ASTM C150/C150M-24 and AASHTO M 85.

Chemical Specifications and Analysis					
ASTM	ASTM	C150	Act	ual	
(C114)	TYPE II	TYPE V	Anal	ysis	
SiO2	NA	NA	23.0	%	
Al2O3	6.0 max	NR	4.5	%	
Fe2O3	6.0 max	NR	4.0	%	
CaO	NA	NR	62.1	%	
MgO	6.0 max	6.0 max	2.1	%	
SO3	3.0 max	2.3 max	2.8	%*	
Loss	3.5 max	3.5 max	3.2	%	
Insoluble	1.5 max	1.5 max	1.3	%	
*Eq.Alkalies Max.0.60%	-	-	0.60	%	
Free Lime (C-114)	NR	NR	1.8	%	
		Compour	nds:		
C3S	NR	NR	32.6	%	
C2S	NR	NR	38.9	%	
C3A	8 max	5 max	4.9	%	
C4AF	NR	NR	11.8	%	
2C3A+C4AF	NR	25 max	21.5	%	
%CO2	NA	NA	1.6	%	
% Limestone	5.0 Max	5.0 Max	3.7	%	
%CaCO3 in LS	70%min	70%min	98.1	%	

Physical Specificati	ions and A	nalysis	
	ASTM	C150	Actual
	TYPE II	TYPE V	Analysis
Air content of mortar	12 max	12 max	8
(%volume) (C185)			
Blaine, Sq.cm/gm (C204)	2600 min	2600 min	4447
Fineness (M-325) (C430)			97.9
*Autoclave Max. Exp. 0.50 % (Caltrans Std Spec)	-	-	0.013
False Set, % (C451)		50 min	78
Time of Setting:			
Vicat, Initial minutes (C191)	45 min	45 min	143
Vicat, Final minutes (C191)	375 max	375 max	259
Gilmore, Initial (C266)	60 min	60 min	162
Gilmore, Final (C266)	600 max	600 max	271
C-1038 Mortar bar exp.(%)		0.020 max	0.005
Compressive Strength:			
(C109/C109M)			
1 day (Psi)	NR	NR	1950
3 days (Psi)	1450 min	1160 min	3600
• • •			
7 days (Psi)	2470 min	2180 min	4470
28 davs (Psi)	NR	3050 min	5960

NA = Not Applicable; NR = No Requirement

This Cement Meets Or Exceeds The Following Described Specifications

ASTM & AASHTO: ASTM C150/150M-24. and AASHTO M85 Types II & V Modified, (low Alkalie)

California: Section 201-1.2.1(a) 1) Latest Edition of Standard Specifications for Public Works Construction.

* Caltrans: Section 90-1.02B(2) of Standard Specifications, Type -II and Type V (2023 Stan. Specs.)

Main Office:

NATIONAL CEMENT COMPANY OF CALIFORNIA

15821 Ventura Blvd. Suite 475 Encino, Ca. 91436-2935 (818) 788-4228

Quality Control Manager 8/4/25



Tehachapi Cement, LLC.

TECHNICAL SERVICES SALES & MARKETING

Telephone (805) 479-2468

PLANT LOCATION

13573 Tehachapi Blvd. Tehachapi, CA 93561 Telephone (661) 825-2600 FAX (661) 822-1278

CEMENT TEST REPORT

Cement: Type II/V, Low Alkali, Type GU Production Period: December 1, 2024 - December 31, 2024 Report Date: January 10, 2025

CHEMICAL REQUIREMENTS	REPORT Date: January 10, 2025 IEMICAL REQUIREMENTS Test ASTM SPECIFICATION LIMITS CalTrans Test					
CHEMICAL REQUIREMENTS	Test Method	Type II	Type V	Type GU	CalTrans 90-1.02B(2)	Test Results
SiO2 (%)	C114					21.2
Al2O3 (%)	C114	6.0 max	-			4.2
Fe2O3 (%)	C114	6.0 max		-		3.8
CaO (%)	C114					63.6
MgO (%)	C114	6.0 max	6.0 max	20	2	1.0
SO3 (%)	C114	3.0 max*	2.3 max*	_		3.3
Loss on ignition (%)	C114	3.5 max	3.5 max	2		1.6
Na2O (%)	C114					0.21
K2O (%)	C114	-	-			0.46
Equivalent alkalies (%)	C114	0.60 max	0.60 max		0.60 max	0.51
Insoluble residue (%)	C114	1.5 max	1.5 max	-		0.5
CO2 (%)	C114	2	-			0.7
Limestone (%)	C150-A2	5.0 max	5.0 max	20	20.17	2.0
CaCO3 in Limestone (%)	C150-A2	70 min	70 min	-	-	76
Potential phase composition (%) 8						
C3S	C150-A1	-		40	65 max	54
C2S	C150-A1		-	-	2	19
C3A	C150-A1	8 max	5 max	_		5
C4AF	C150-A1	-	-	*		11
C4AF + 2(C3A)	C150-A1	-	25 max			20
C3S + 4.75(C3A)	C150-A1					76

Not applicable.

^{*} Adjusted per ASTM C150 Section A 1.6

PHYSICAL REQUIREMENTS	Test	ASTM	SPECIFICATION	CalTrans	Test	
	Method	Type II	Type V	Type GU	90-1.02B(2)	Results
Air content of mortar (volume %)	C185	12 max	12 max	12 max	_	6
Blaine fineness (m2/kg)	C204	260 min	260 min	-		373
Passing 45 µm sieve (%)	C430	_	-	20	-	99.0
Autoclave expansion (%)	C151	0.80 max	0.80 max	0.80 max	0.50 max	-0.05
Compressive strength (Mpa [psi])						0.00
1 day	C109		-		20	15.6 [2260]
3 days	C109	10.0 min	8.0 min	13.0 min		28.3 [4100]
7 days	C109	17.0 min	15.0 min	20.0 min	_	35.0 [5080]
28 days (previous month)	C109		21.0 min	28.0 min		45.8 [6640]
Time of setting, Vicat (minutes)					_	10.0 [00 10]
Initial	C191	45 - 375	45 - 375	45 - 420	427	119
Final	C191	-	-		-	233
Mortar bar expansion (%)	C1038	0.020 maxr	0.020 maxr	0.020 max		0.002
False set (%)	C451	50 min	50 min	50 min		90
Heat of hydration (J/g [cal/g])						50
3 days	C1702		- 2	20		0 (01
Normal Consistency, %	C187					0 [0] 26.1

Required only if percent SO3 exceeds the chemical specification limit.

We certify that the above described cement, at the time of shipment, meets the chemical and physical requirements of:

ASTM C150 - Type II/V, Low Alkali ASTM C1157 - Type GU

AASHTO M85 - Type II/V, Low Alkali

Caltrans Section 90-1.02B(2) Cement ADOT Subsection 1006-2.01 - Hydraulic Cement NSF/ANSI 61 - Drinking Water System Components

WARNING: This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65t/Varnings.ca.gov.



Samuel Steeley - Asst Plant Manager

^{*} Can be exceeded if ASTM C1038 expansion is below 0.020%

Represents latest result, provided for information only



Tehachapi Cement, LLC.

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Telephone (805) 479-2468

PLANT LOCATION

13573 Tehachapi Blvd. Tehachapi, CA 93561 Telephone (661) 825-2600 FAX (661) 822-1278

CEMENT TEST REPORT - Additional Data

Cement: Type II/V, Low Alkali, Type GU Production Period: December 1, 2024 - December 31, 2024 Report Date: January 10, 2025

Limestone Addition	Test Method	Test Results
Amount (%)	C150-A2	2.0
SiO2 (%)	XRF	10
Al2O3 (%)	XRF	2
Fe2O3 (%)	XRF	0
CaO (%)	XRF	83
SO3 (%)	XRF	0

Base Cement	Test Method	Test Results
C3S (%)	C150-A1	55
C2S (%)	C150-A1	19
C3A (%)	C150-A1	19
C4AF (%)	C150-A1	12

We certify that the above described data represents the materials used in the cement manufactured during the production period indicated.







Samuel Steeley - Asst Plant Manger

WARNING: This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.



Metro Ready Mix Attn: Mark 1635 James Rd Bakersfield, CA 93308

Product: ASTM C618 Class F, Four Corners Fly Ash

AASHTO M295

POZZOLAN TEST REPORT

April 2024	Results	Specifica	tions
Chemical Analysis (C311 / C114 / T105 / D4326)			
Silicon Dioxide, SiO ₂	60.60 %		
Aluminum Oxide, Al 2O 3	23.00 %		
Ferric Oxide, Fe ₂ O ₃	5.08 %		
$SiO_2 + AI_2O_3 + Fe_2O_3$	88.68 %	50.00	Min
Calcium Oxide, CaO	2.75 %	18.00	Max
Magnesium Oxide, MgO	1.14 %		
Sulfur Trioxide, SO ₃	0.27 %	5.00	Max
Moisture Content	0.10 %	3.00	Max
Loss on Ignition	0.30 %	6.00	Max
Sodium Oxide, Na 2 O	1.47 %		
Potassium Oxide, K ₂ O	1.29 %		
Total Alkalis	2.32 %		
Available Alkalis	0.63 %		
Physical Analysis			
Fineness, amount retained on			
#325 sieve, % (C430)	27.30	34.00	Max
variation, points from average	0.36	5.00	Max
Density, g/cm ³ (C188)	1.98		
Variation from average, %	0.01	5.00	Max
Strength Activity Index			
with Portland Cement (C311/C109)			
at 7 days, % of cement control	76.30		
at 28 days, % of cement control	79.18	75.00	Min
Water Requirement (C311)			
% of cement control	97.52	105.00	Max
Soundness, autoclave expansion (c	311 / C151)		
or contraction, %	-0.01	0.80	Max

All tests have been made in strict accordance with the current standards of the American Society for Testing and Materials covering the type of material specified.

Mark Évans, Quality Systems Manager

06 MAY 2024

PHOENIXCEMENT

Clarkdale Cement Plant 601 N. Cement Plant Rd Clarkdale, AZ 86324

Lower Buckeye Terminal 1941 W. Lower Buckeye Rd Phoenix, AZ 85007

> 54th Ave. Terminal 5402 W Buchanan St. Phoenix, AZ 85043

21st Ave. Terminal 1325 N. 21st Ave. Phoenix, AZ 85009

19th Ave. Terminal 1802 W. Lower Buckeye Rd Phoenix, AZ 85007

> Dobson Storage 9595 E. McKellips Rd. Scottsdale, AZ 85250

Cholla Fly Ash Plant 4801 Frontage Rd. Joseph City, AZ 86032

Four Corners Fly Ash Plant End of County Road 6675 Fruitland, NM 87416

> Bonanza Fly Ash Plant 12500 East, 25500 South Vernal, UT 84078

Huntington Fly Ash Plant 8 Miles West on Highway 31 Huntington, UT 84528

Apache Fly Ash Plant 3537 H Highway 191 South Cochise, AZ 85606

Coronado Generating Station Hwy 191, 7 miles North of St. Johns St. Johns, AZ 85936

> Gallup Terminal 900 N 9th St. Gallup, NM 87301

Fontana Terminal 13600 Napa St. Fontana, Ca 92335

Bakersfield Terminal 32535 7th Standard Rd. Bakersfield, CA 93314

Stockton Terminal 1300 N. Gertrude Ave. Stockton, CA 95215

Tucson Terminal 4120 E Irvington Rd Tucson, AZ 85714





February 5, 2025

Project: BK4765

Mike Williams Griffith Company 1128 Carrier Parkway Ave Bakersfield, CA 93308

Subject:

Concrete Aggregate 1-1/2" x 3/4", 1" x #4, 3/8" x #8, and WCS Aggregate Quality Report

Dear Mr. Williams,

Transmitted as part of this letter are the requested test results to evaluate the aggregates from the Griffith Edmonston Quarry (SMARA #91-15-0068) in accordance with ASTM C33/C33M-23 and the following standards:

- ASTM C127-15 & C128-22, "Standard Test Method for Density, Relative Density (Specific Gravity), and Absorption of Coarse Aggregate." "Fine Aggregate."
- ASTM C88-18, "Standard Test Method for Soundness of Aggregates by use of Sodium Sulfate or Magnesium Sulfate."
- ASTM C535-16, "Standard Test Method for Resistance to Degradation of Large-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine (LA Rattler)."
- ASTM C131-20, "Standard Test Method for Resistance to Degradation of Small-Size Coarse Aggregates by Abrasion and Impact in the Los Angeles Machine (LA Rattler)."
- 5. ASTM C136-19, "Standard Test Method for Sieve Analysis of Fine and Coarse Aggregates."
- ASTM C117-23, "Standard Test Method for Materials Finer than No. 200 Sieve in Mineral Aggregates by Washing."
- 7. ASTM C40-20, "Standard Test Method for Organic Impurities."
- 8. ASTM C29-23, "Standard Test Method for Bulk Density (Unit Weight) and Voids in Aggregates."
- 9. ASTM C142-17, "Standard Test Method for Clay Lumps and Friable Particles in Aggregates."
- 10. ASTM C123-23, "Standard Test Method for Lightweight Particles in Aggregate."

Testing for the above C33 testing schedule was performed by G3 Quality, Inc. Materials were sampled by Stuart Ahumada of G3 Quality on 01/13/2025 for evaluation.

G3 Quality, Inc. has no authority regarding where aggregates are to be used; therefore, it is the responsibility of the project architect, engineer, and/or contractor to ensure that the reported aggregates quality results from the specific mine are appropriate for the anticipated concrete material use and weather regional environmental conditions.

All reports remain the property of G3 Quality, Inc. Reports are for the exclusive use of the client, may consist of multiple pages, and are issued in their entirety. Authorization for publication of the reports, conclusions, or extracts in whole or in part are reserved pending written approval from G3 as a mutual protection to Clients, the Public and G3.

Should you have any questions or comments, please contact our Project Manager Marc G. Robert, at 562-321-5561.

Best Regards, G3 Quality, Inc.

Marc G. Robert

Technical Services Director

Jordan Roper, PE Civil Engineer



GRIFFITH EDMONSTON QUARRY ASTM C33 SUMMARY OF TEST RESULTS

Aggregate Source: Material Type:

Tested by:

Griffith Edmonston SMARA 91-15-0068

PCC Aggregates 1" x #4 (No. 57 Agg)

M. Kaus, D. Silva, S. Chang of G3 Quality

Sample Date: 1/13/2025

Report Date: 2/5/2025 Project Number: BK4765

ASTM C136, Sieve Analysis of Coarse Aggregates		
Sieve Size	Percent Passing	Grading Limits ASTM C33 Table 3, No. 57
1-1/2"	100	100
1"	99	95-100
3/4"	91	
1/2"	54	25-60
3/8"	29	
#4	7	0-10
#8	4	0-5

ASTM C117, Material Finer than 0.075mm (No. 200 Sieve)		
Procedure Used:	A	
Material Passing No. 200 Sieve:	0.9%	
Maximum Limit per ASTM C33, Table 3	1.0%	

ASTM C127, Density, Relative Density, Absorption of Coarse Aggregate	
Bulk Specific Gravity	2.73
Bulk Specific Gravity (SSD)	2.77
Apparent Specific Gravity	2.85
Absorption	1.5%

ASTM C88, Soundness of Aggregates by S	Sodium Sulfate
Total Weighted Percentage Loss	11.3%
Maximum Limit per ASTM C33, Table 4	12%

ASTM C29, Bulk Density (Unit Weight) and Voids in Aggregates		
Bulk Density, based on Shoveling	94.4 lbs./cu.ft.	
Bulk Density, based on Jigging	98.6 lbs./cu.ft.	
Bulk Density, based on Dry Rodded	100.2 lbs./cu.ft.	

ASTM C131, Resistance to Degradation by Abrasion & Impact in the Los Angeles Machine	
Grading:	В
Loss by Abrasion, % (100 revs)	8%
Loss by Abrasion, % (500 revs)	34%
Maximum Limit per ASTM C33, Table 4	50%

ASTM C142, Clay Lumps and Fr	iable Particles
Average Clay Lumps and Friable Particles	0%
Maximum Limit per ASTM C33, Table 4	Varies: 2 to 10%

ASTM C123, Lightweight Particles in Aggregate		
Medium Used:	Zinc Chloride	Zinc Bromide
Specific Gravity of Medium Used:	2.0	2.4
Lightweight Particles:	0%	0%
Maximum Limit per ASTM C33, Table 4		0.5 to 8%

The tests were performed in general accordance with applicable ASTM, AASHTO, or DOT test methods. 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. All reports remain the property of G3 Quality, Inc. Reports are for the exclusive use of the client, may consist of multiple pages, and are issued in their entirety. Authorization for publication of the reports, conclusions, or extracts in whole or in part are reserved pending written approval from G3 as a mutual protection to clients, the public and G3.

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GRIFFITH EDMONSTON QUARRY ASTM C33 SUMMARY OF TEST RESULTS

Aggregate Source: Material Type:

Tested by:

Griffith Edmonston SMARA 91-15-0068

PCC Aggregates 3/8" x #8 (No. 8 Agg)

M. Kaus, D. Silva, S. Chang of G3 Quality

Sample Date: 1/13/2025 Report Date: 2/5/2025 Project Number: BK4765

ASTM C 136, Sieve Analysis of Coarse Aggregates		
Sieve Size	Percent Passing	Grading Limits ASTM C33 Table 3, No. 8
1/2"	100	100
3/8"	99	85-100
#4	26	10-30
#8	2	0-10
#16	1	0-5

ASTM C117, Material Finer than 0.075mm (No. 200 Sieve)		
Procedure Used:	A	
Material Passing No. 200 Sieve:	1.0%	
Maximum Limit per ASTM C33, Table 3	1.0%	

ASTM C 127, Density, Relative Density, Absorption of Coarse Aggregate	
Bulk Specific Gravity	2.69
Bulk Specific Gravity (SSD)	2.73
Apparent Specific Gravity	2.80
Absorption	1.5%

ASTM C88, Soundness of Aggregates by Sodium Sulfate		
Total Weighted Percentage Loss	4.3%	
Maximum Limit per ASTM C33, Table 4	12%	

ASTM C 29, Bulk Density (Unit Weigh	nt) and Voids in Aggregates
Bulk Density, based on Shoveling	95.2 lbs./cu.ft.
Bulk Density, based on Jigging	99.4 lbs./cu.ft.
Bulk Density, based on Dry Rodded	98.2 lbs./cu.ft.

ASTM C131, Resistance to Degradation by Abrasion & Impact in the Los Angeles Machine		
Grading:	С	
Loss by Abrasion, % (100 revs)	8%	
Loss by Abrasion, % (500 revs)	36%	
Maximum Limit per ASTM C33, Table 4	50%	

ASTM C 142, Clay Lumps and Fr	riable Particles
Average Clay Lumps and Friable Particles	0%
Maximum Limit per ASTM C33, Table 4	Varies: 2 to 10%

ASTM C 123, Lightweight Particles in Aggregate		
Medium Used:	Zinc Chloride	Zinc Bromide
Specific Gravity of Medium Used:	2.0	2.4
Lightweight Particles:	0%	0%
Maximum Limit per ASTM C33, Table 4	Varies: 0.5 to 8%	

The tests were performed in general accordance with applicable ASTM, AASHTO, or DOT test methods. 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. All reports remain the property of G3 Quality, Inc. Reports are for the exclusive use of the client, may consist of multiple pages, and are issued in their entirety. Authorization for publication of the reports, conclusions, or extracts in whole or in part are reserved pending written approval from G3 as a mutual protection to clients, the public and G3.

AASHIO



GRIFFITH EDMONSTON QUARRY ASTM C33 SUMMARY OF TEST RESULTS

Aggregate Source: Material Type: Griffith Edmonston SMARA 91-15-0068
Fine Aggregate (Washed Concrete Sand)

<u>Sample Date:</u> 1/13/2025 <u>Report Date:</u> 2/5/2025

Tested by:

M. Kaus, D. Silva, P Rice, & S Chang of G3 Quality

Project Number: BK4765

Sieve Size	Percent Passing	Grading Limits ASTM C33 Table 1
3/8"	100	100
#4	100	95-100
#8	87	80-100
#16	64	50-85
#30	39	25-60
#50	16	5-30
#100	4	0-10
#200	2.1	0-3.0
Fineness of Modulus	2.70	2.3-3.1

ASTM C128, Density, Relative Density, Absorption of Fine Aggregate		
Bulk Specific Gravity	2.62	
Bulk Specific Gravity (SSD)	2.66	
Apparent Specific Gravity	2.73	
Absorption	1.5%	

ASTM C88, Soundness of Aggregates by Sodium Sulfate	
Total Weighted Percentage Loss	5.9%
Maximum Limit per ASTM C33, Table 8.1	10%

ASTM C29, Bulk Density (Unit Weight) and Voids in Aggregates		
Bulk Density, based on Shoveling	97.8 lbs./cu.ft.	
Bulk Density, based on Jigging	102.8 lbs./cu.ft.	
Bulk Density, based on Dry Rodded	99.1 lbs./cu.ft.	

ASTM C142, Clay Lumps and Fria	able Particles
Average Clay Lumps and Friable Particles	0%
Maximum Limit per ASTM C33, Table 2	3.0%

ASTM C123, Lightweight Particles in Aggregate		
Medium Used:	Zinc Chloride	Zinc Bromide
Specific Gravity of Medium Used:	2.4	2.0
Lightweight Particles:	0%	0%
Maximum Limit per ASTM C33, Table 2	Varies: (0.5 to 8%

ASTM C40, Orga	nic Impurities
Organic Impurities	Lighter
Maximum Limit per ASTM C33	Lighter Than The Standard

The tests were performed in general accordance with applicable ASTM, AASHTO, or DOT test methods. 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. All reports remain the property of G3 Quality, Inc. Reports are for the exclusive use of the client, may consist of multiple pages, and are issued in their entirety. Authorization for publication of the reports, conclusions, or extracts in whole or in part are reserved pending written approval from G3 as a mutual protection to clients, the public and G3.



STATE OF CALIFORNIA • DEPARTMENT OF TRANSPORTATION CALTRANS MATERIAL PLANT QUALITY PROGRAM CERTIFICATION

DOT CEM-4204C (NEW 01/2024)

This is to certify that

Metro Ready Mix

located at

1635 James Road, Bakersfield, CA 93308

complies with Caltrans Material Plant Quality Program (MPQP) requirements. This plant is to be used in the production of

Concrete - Batch Plant

This certificate is valid until the expiration date shown below, provided that no measuring components, spans, and wire seals change during this time frame without the knowledge of the weights and measure coordinator. Should any evidence indicate otherwise, the plant will be re-tested as often as the resident engineer deems necessary within this period. Compliance with all applicable sections of the *Standard Specifications*, special provisions, and the California Division of Occupational Safety and Health requirements will be the responsibility of plant management.

Material Type	Operational Limit Range	Span/Cal Factor	Mass Factor/Other Info
Aggregate	0 - 32000 lbs	Lead Wire Sealed	
Cement/SCM	0 - 8000 lbs	Lead Wire Sealed	
Water	0 - 300 gals	041.7	

Comments (if applicable)

Approved By Jessa Dhaliwal

District 06 Weights & Measures Coordinator

Signature:

Jessa Gralinal

Certification Number 06-240617-JD-1

Date Approved 6/17/2024

Date Expires 6/17/2025 , or void if moved (see Note)

Note: Excluding volumetric trucks, full or partial depth recycling, cold central plant recycling equipment.

^{*} No additional comment is reported.

STATE OF CALIFORNIA · DEPARTMENT OF TRANSPORTATION

CALTRANS MATERIAL PLANT QUALITY PROGRAM CERTIFICATION

DOT CEM-4204C (NEW 01/2024)

This is to certify that

Metro Ready Mix

located at

1104 Earth Mover Court, Bakersfield, CA 93314

complies with Caltrans Material Plant Quality Program (MPQP) requirements. This plant is to be used in the production of

Concrete - Batch Plant

This certificate is valid until the expiration date shown below, provided that no measuring components, spans, and wire seals change during this time frame without the knowledge of the weights and measure coordinator. Should any evidence indicate otherwise, the plant will be re-tested as often as the resident engineer deems necessary within this period. Compliance with all applicable sections of the *Standard Specifications*, special provisions, and the California Division of Occupational Safety and Health requirements will be the responsibility of plant management.

Material Type	Operational Limit Range	Span/Cal Factor	Mass Factor/Other Info
Aggregate	0 - 32000 lbs	Lead Wire Sealed	
Cement/SCM	0 - 8000 lbs	Lead Wire Sealed	
Water	0 - 300 gals	0397	

Comments (if applicable)

Approved By Jessa Dhaliwal

District 06 Weights & Measures Coordinator

Signature:

Jessa Graliane

Certification Number 06-241206-JD-1

Date Approved 12/6/2024

Date Expires 12/6/2025 , or void if moved (see Note)

Note: Excluding volumetric trucks, full or partial depth recycling, cold central plant recycling equipment.

^{*} No additional comment is reported.