

Castle Concrete Aggregates - Grisenti Gravel Pits
SWSP Accounting
February 2025

Month	Production		Dust Control		Reclamation Irrigation		Evaporation of Exposed Ground Water Area										Total Depletions				Historical	Unlagged Ditch	Unlagged Ditch	Lagged	Exch. of	Replacement Requirements		Replacement
	Mined Material (tons)	Water Consumed (ac-ft)	Meter Reading (gallons)	Water Use (ac-ft)	Phase 1		Phase 2		Net Evap. Rate (ft)	Exposed Ground Water Area (acres)			Net Evaporation Vol (ac-ft)			First-Fill of Phase 2	Unlagged Mining Depletion (ac-ft)	Lagged Mining Depletion (ac-ft)	% OOP	OOP Lagged Mining Depletion (ac-ft)	Irrigation Credit (+/-) Debit (-)	Deliveries to Phase 1 Pond	Deliveries to Phase 2 Pond	Irrigation Credit To River	Water from Pueblo Reservoir (ac-ft)	Remaining Replacement Requirement (ac-ft)	Twin Lakes Release (ac-ft)	Balance Credit (+/-) Debit (-) (ac-ft)
					Meter	Amount	Meter	Amount		Phase 1	Phase 2	Total	Phase 1	Phase 2	Total	Ground Water Infiltration (ac-ft)												
					(gallons)	(ac-ft)	(gallons)	(ac-ft)																				
[1]			[2]		[3a]		[3b]		[4]		[5]		[6]		[7]	[8]	[9]	[10]	[11]	[12]	[13a]	[13b]	[14]	[15]	[16]	[17]	[18]	
Apr-24	0	0.00	3,603,200	0.00	0	0.00	888400	0.00	0.26	24.00	25.70	49.70	6.25	6.69	12.94	0.00	12.94	10.66	100%	10.66	11.45	11.45		6.45	0.00	4.21	4.70	0.00
May-24	0	0.00	3,603,200	0.00	0	0.00	888400	0.00	0.36	24.00	25.70	49.70	8.66	9.27	17.94	0.00	17.94	15.93	100%	15.93	32.97	19.86		15.57	0.00	0.37	0.41	0.00
Jun-24	0	0.00	3,603,200	0.00	0	0.00	888400	0.00	0.49	24.00	25.70	49.70	11.66	12.49	24.15	0.00	24.15	21.70	100%	21.70	34.67	13.48		15.81	0.00	5.88	6.56	0.00
Jul-24	0	0.00	3,603,200	0.00	0	0.00	888400	0.00	0.46	24.00	25.70	49.70	11.11	11.89	23.00	0.00	23.00	23.27	100%	23.27	39.24	35.10		26.00	0.00	0.00	0.00	2.73
Aug-24	0	0.00	3,603,200	0.00	0	0.00	888400	0.00	0.40	24.00	25.70	49.70	9.50	10.17	19.67	0.00	19.67	20.94	100%	20.94	27.19	25.35		28.44	0.00	0.00	0.00	7.50
Sep-24	0	0.00	3,603,200	0.00	0	0.00	888400	0.00	0.32	24.00	25.70	49.70	7.65	8.20	15.85	0.00	15.85	17.36	100%	17.36	20.23	16.27		20.76	0.00	0.00	0.00	3.40
Oct-24	0	0.00	3,603,200	0.00	0	0.00	888400	0.00	0.21	24.00	25.70	49.70	5.07	5.43	10.50	0.00	10.50	12.60	100%	12.60	16.64	7.81		12.00	0.61	0.00	0.00	0.01
Nov-24	0	0.00	3,603,200	0.00	0	0.00	888400	0.00	0.11	24.00	25.70	49.70	2.61	2.80	5.41	0.00	5.41	7.45	100%	7.45	-6.26	0.00		3.87	7.66	2.18	2.43	0.00
Dec-24	0	0.00	3,603,200	0.00	0	0.00	888400	0.00	0.08	24.00	25.70	49.70	2.02	2.16	4.18	0.00	4.18	4.77	100%	4.77	-3.65	0.00		0.42	0.00	8.00	8.92	0.00
Jan-25	0	0.00	3,603,200	0.00	0	0.00	888400	0.00	0.09	24.00	25.70	49.70	2.10	2.25	4.35	0.00	4.35	4.32	100%	4.32	-2.80	0.00		0.00	0.00	7.12	7.93	0.00
Feb-25	0	0.00	3,603,200	0.00	0	0.00	888400	0.00	0.10	24.00	25.70	49.70	2.51	2.69	5.20	0.00	5.20	4.88	100%	4.88	-2.12	0.00		0.00	0.00	7.00	7.80	0.00
Mar-25									0.15			0.00	0.00	0.00	0.00					-2.04				0.00				
Apr-24 - Mar-25	0	0.00	-	0.00	-	0.00	-	0.00	-	-	-	-	69.14	74.04	143.19	0.00	143.19	143.88	-	143.88	167.58	129.32	0.00	129.32	8.27	34.75	38.74	13.64

Notes:

[1] No production is expected during the SWSP period. Equal to 0.

[2] Water use based upon end-of-month meter readings reported by Castle Concrete Aggregates. March 2024 end-of-month meter reading is 3,603,200 gallons.

[3a], [3b] No reclamation irrigation uses will occur under this SWSP. Equal to 0.

[4] Net Evaporation calculated as described in the 2024 SWSP renewal request.

[5] Individual and total exposed ground water area reported by BBA or Castle Concrete Aggregates.

[6] Individual and total evaporative depletion volume equal to net evaporation rate [4] multiplied by the exposed ground water area [5].

[7] First fill of Phase 2 was completed in the previous SWSP and is not applicable to the 2024 SWSP.

[8] Total unlagged mining depletions equal [1] + [2] + [3a] + [3b] + [6] + [7].

[9] Total lagged mining depletions are lagged using URF factors for each mining area, developed in IDS-AWAS employing the glover method. IDS-AWAS inputs are specified in the 2024 SWSP renewal request.

[10] Percent of days during the month that the mining depletions were out of priority and in require augmentation.

[11] Total out-of-priority lagged mining depletions needing to be replaced to the river equal to [9] * [10].

[12] Based on Historical Irrigation Credits/Debits from BBA analysis in 2010 SWSP request, continued in 2024 SWSP.

[13a], [13b] Actual replacement deliveries to the Phase 1 and 2 recharge ponds. Phase 1 recharge is measured through a 2-foot rectangular weir. Phase 2 recharge will be measured through a Parshall flume or other approved device.

[14] Historical irrigation credits delivered from Lester-Attebury Ditch to the Phase 1 and 2 ponds are lagged using URFs developed in IDS-AWAS employing the glover method. IDS-AWAS inputs are specified in the 2024 SWSP renewal request.

[15] Replacement water delivered to Arkansas River out of Pueblo Reservoir via administrative exchange. Source of water is lease water from PBWW.

[16] If [12] is negative, equals maximum of [11] - [12] - [14] - [15] and zero, else if [12] is positive, equal to maximum of [11] - [14] - [15] and zero.

[17] Twin Lakes Release is assessed a 10.3% transit loss based upon a loss of 0.07% per mile and a distance of 147.8 miles. Manual input.

[18] Equal to [14] + [15] + [17] * (1-0.103) - [11] - minimum of [12] and zero.