

Eschberger - DNR, Amy < amy.eschberger@state.co.us>

SWSP Approval for the Kauffman No. 1 Pit (Plan ID 3039)

Brucker - DNR, Sarah <sarah.brucker@state.co.us>

To: Todd Williams <tlwwater@msn.com>

Thu, Dec 15, 2022 at 10:42 AM

Cc: Michael Hein <michael.hein@state.co.us>, Jean Lever <jean.lever@state.co.us>, Louis Flink <louis.flink@state.co.us>, Dawn Ewing - DNR <dawn.ewing@state.co.us>, Amy Eschberger - DNR <amy.eschberger@state.co.us>

Please find attached the Substitute Water Supply Plan Approval for the Kauffman No. 1 Pit (DRMS Permit No. M-1978-327, WDID 0402530, Plan ID 3039). Should you have any questions, please contact me at this office.

Sarah Brucker Water Resources Engineer



COLORADO Division of Water Resources

Department of Natural Resources

P 303.866.3581 x 8249 1313 Sherman St., Suite 821 Denver CO 80203 sarah.brucker@state.co.us | https://dwr.colorado.gov





December 15, 2022

Mr. Todd Williams, P.E. Williams and Weiss Consulting, LLC 5255 Ronald Reagan Boulevard, Ste 220 Johnstown, CO 80534

RE: Kauffman No. 1 Substitute Water Supply Plan (WDID 0402530, Plan ID 3039) Kauffman No. 1 Pit, DRMS Permit No. M-1978-327 (WDID 0403009) Sections 20 and 21, T5N, R68W, 6th P.M. Water Division 1, Water District 4, Larimer County

Approval Period: January 1, 2023 through December 31, 2023 Contact Information for Mr. Todd Williams: 303-653-3940; <u>tlwwater@msn.com</u>

Dear Mr. Williams:

We have reviewed your letter dated November 16, 2022 requesting renewal of the above referenced substitute water supply plan on behalf of Jake Kauffman and Son, Inc. ("Applicant") in accordance with section 37-90-137(11), C.R.S., to cover depletions associated with a sand and gravel pit. The required fee of \$257.00 for the renewal of this substitute water supply plan has been submitted (receipt number 10025581). The original substitute water supply plan was approved on April 6, 1992 and it was most recently approved on December 27, 2021 for operations through December 31, 2022.

SWSP Operation

The Kauffman No. 1 Pit (WDID 0403009, well permit no. 42901-F) is located in Larimer County in part of the $E^{1/2}_{2}$ of Section 20 and the NW¹/₄ of the SW¹/₄ of Section 21, Township 5 North, Range 68 West of the 6th P.M. Active mining at the site has ceased and reclamation activities at the site are limited to the establishment of dry-land grasses. As of 2012, all groundwater exposed to the atmosphere after December 31, 1980 has been backfilled so that there are no new evaporative depletions associated with this site. The site currently contains three unlined ponds of approximately 20.68 acres, 8.89 acres, and 0.12 acres, and an additional pond located outside of the permit area of approximately 1.11 acres, as shown on the attached Map 4. Pursuant to section 37-90-137(11)(b), C.R.S. and 2009CW49, a gravel pit operator or property owner does not need to replace depletions that occur due to evaporation from groundwater exposed prior to January 1, 1981 as a result of open mining of sand and gravel, regardless of whether mining continued after December 31, 1980. Previous SWSPs have recognized that 36.2 acres of water surface was exposed at the Kauffman No. 1 Pit prior to January 1, 1981 ("pre-81"). Due to backfilling at the site and an overall drop in water levels, the pit now has an exposed surface area of 34.8 acres. In accordance with the Division of Water Resources' "General Guidelines for Substitute Water Supply Plans for Sand and Gravel Pits" updated April 1, 2011, pre-81 areas are tied to the physical location at which the



Kauffman No. 1 SWSP Plan ID 3039

groundwater was exposed prior to January 1, 1981 with the exception for areas whose reallocation was approved by the State Engineer prior to January 1, 2011. The Applicant provided a map showing the reallocation of the pre-81 areas as a part of their 2010 SWSP request (see attached Figure 2). The reallocated pre-81 areas consisted of two unlined ponds of approximately 25.2 acres and 9.7 acres, and an additional pond located outside of the permit area of approximately 1.1 acres. Because the pre-81 credit associated with the Kauffman No. 1 Pit (36.2 acres) is greater than the current surface area of the Kauffman No. 1 Pit (34.8 acres), and the location of the currently exposed surface area is entirely within the boundaries of the pre-81 area shown in Figure 2, there are no evaporative depletions associated with the Kauffman No. 1 Pit that require replacement under this SWSP. Please note that the credits for the pre-81 areas are tied to the locations identified on Figure 2 and may not be re-allocated to other areas of groundwater exposure within the gravel pit boundaries. Any pre-81 area that is backfilled will lose the pre-81 exemption should it be excavated in the future. Additionally, the backfilling of a pre-81 area shall not create a credit to be used elsewhere.

Consumption of water at the site during this plan period will be limited to use for dust control purposes at the site required during reclamation, and is expected to end once reclamation is complete. Water for dust control purposes will be pumped from one of the unlined ponds on the site. The replacement water will be supplied through a lease with the City of Loveland.

Depletions

The Applicant projects using 6.60 acre-feet of groundwater at the site for dust control purposes during this plan period, as shown in the attached Table 1. Dust control use is assumed to be 100% consumptive. No other use of groundwater at the site is anticipated during this plan period.

The monthly depletions to the Big Thompson River due to past and projected use were lagged from the pit site using the AWAS program developed by the IDS Group at Colorado State University. The parameters used in the model were: a distance from the site to the river (X) which varied as shown in the table below; a distance from the river through the site to the no flow aquifer boundary (W) of 4,000 ft; an aquifer transmissivity (T) of 50,000 gallons/ft/day; and a specific yield (S) of 0.2.

Years	X (ft)	Basis
2000-11	250	Distance used by Applegate Group (previous consultant) for this time period
2012	1,700	Distance from the river to the pump used to provide water to the City of Loveland property
2013-14	550	Distance from the river to the point water is being pumped for dust control purposes
2015-23	1,450	Distance from the river to the point water is being pumped for dust control purposes

Consumptive use for the period of 2000 through 2012 was obtained from prior SWSP submittals. Consumptive use from 2013 through 2022 is based on records of actual dust control use at the site provided by the Applicant. The lagged stream depletions due to past and projected use at the site are estimated to total 6.45 acre-feet during this plan period, as shown on the attached Table 3. The Kauffmann No. 1 Pit is directly adjacent to the Big Thompson River, and depletions are assumed to impact the river in the $E^{1/2}$ of Section 20, Township 5 North, Range 68 West of the 6th P.M.

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Replacements

Replacement water for this pit will be made available throughout the year from a lease of up to ten (10) acre-feet of fully consumable water from the City of Loveland ("Loveland"). A copy of the lease, dated December 7, 2021, is attached to this letter. The duration of the lease is from January 1, 2022 through December 31, 2024.

Under the terms of the lease, replacements may be made using a variety of water owned by Loveland including, but not limited to, Windy Gap reusable effluent, water stored in Green Ridge Glade Reservoir (aka Loveland Storage Reservoir) (WDID 0403659) as decreed in case no. 82CW202A, decant water from the Loveland Water Treatment Plant (WDID 0402804), effluent from the Loveland Waste Water Treatment Plant (WDID 0402300), or any other water source legally and physically available to Loveland that may be used for augmentation or replacement. In the event that Loveland plans to use Colorado-Big Thompson Project ("C-BT") water as a replacement source, Loveland shall comply with the Interim Rule issued by the Northern Colorado Water Conservancy District ("Northern District") in May 2005, regarding the use of Colorado-Big Thompson Project water in substitute water supply plans. <u>Prior</u> to such use of C-BT Project water, Loveland is required to notify this office, the division engineer and the water commissioner of the amount of C-BT Project water dedicated to this plan and provide a copy of the Northern District's approval letter as required by paragraph I(g) of the Northern District's May, 2005 Interim Rule.

For the 2023 plan period, a total of 6.74 acre-feet of reusable effluent will be provided by Loveland. This leased water is also used to replace depletions at the Wagner-Kauffman No. 3 Pit (M-1999-069, WDID 0403008). A total of 0.035 acre-feet of replacement water has been dedicated to the Wagner-Kauffman No. 3 SWSP (Plan ID 3617, WDID 0402529) during this plan period. The monthly depletions and replacement requirements for the Kauffman No. 1 Pit are indicated on the attached Table 4. A four percent (4%) transit loss has been applied to the required replacement water deliveries, based on the distance from the most upstream augmentation source, Green Ridge Glade Reservoir, to the Kauffman No. 1 Pit. The total amount of replacement water dedicated to the Kauffman No. 1 Pit for this plan period therefore equals 6.71 acre-feet (6.45 acre-feet for replacement of depletions plus 0.258 acre-feet for transit loss).

Long Term Augmentation

In accordance with the attached letter dated April 30, 2010 from the Colorado Division of Reclamation, Mining, and Safety ("DRMS"), all sand and gravel mining operators must comply with the requirements of the Colorado Reclamation Act and the Mineral Rules and Regulations for the protection of water resources. Unlined ponds will create long-term injurious stream depletions unless otherwise augmented. The April 30, 2010 letter from DRMS requires that you provide information to DRMS to demonstrate you can replace long-term injurious stream depletions that result from mining-related exposure of groundwater. The DRMS letter identifies four approaches to satisfy this requirement. Approach no. 4 is to obtain approval from the Division of Water Resources that acknowledges compliance with the SEO's requirements pursuant to section 37-90-137(11), C.R.S. Since the operator has backfilled the site so that only pre-81 groundwater areas remain, there are no long-term injurious stream depletions from mining related exposure of groundwater, and the operator is considered to be in compliance with the SEO's requirements. In addition, there is currently a surety bond outstanding for this project in the amount of \$14,727.00 to ensure reclamation of the site is completed as currently proposed.

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Conditions of Approval

I hereby approve the proposed substitute water supply plan in accordance with section 37-90-137(11), C.R.S., subject to the following conditions:

- 1. This plan is approved with the effective date of January 1, 2023 and shall be valid through December 31, 2023 unless otherwise revoked or superseded by decree. If depletions will extend beyond the plan's expiration date, a renewal request must be submitted to this office with the statutory fee (currently \$257) no later than November 1, 2023. If a renewal request is received after the expiration date of this plan, it may be considered a request for a new SWSP, in which case the \$1,593 filing fee will apply.
- 2. Well permit no. 42901-F was obtained for this gravel pit in accordance with sections 37-90-137(2) and (11), C.R.S. On April 6, 2010 the location of this permit was amended in accordance with Policy Memorandum 93-1 to reflect the actual location of the gravel pit. The permit allows groundwater use for dewatering, evaporation, water lost in mined product, gravel washing, and dust control. The permit allows a maximum annual appropriation of 43.38 acre-feet, and a maximum post-81 exposed groundwater surface of 24.3 acres. Actual groundwater uses and amounts shall be limited to those specifically approved under this SWSP.
- 3. No additional groundwater surface area shall be exposed at the Kauffman No. 1 Pit beyond that which was exposed prior to January 1, 1981. The annual amount of water used for dust control at the Kauffman No. 1 Pit under this SWSP shall not exceed 6.60 acre-feet unless an amendment is made to this plan.
- 4. Approval of this plan is for the purposes as stated herein. Any additional uses for which the water may be used must first be approved by this office.
- 5. All pumping for dust control purposes shall be measured in a manner acceptable to the water commissioner or division engineer.
- 6. All releases of replacement water must be sufficient to cover all out-of-priority depletions in time, place, and amount and must be made under the direction and/or the approval of the water commissioner. Notice must be provided and approval made by the water commissioner at least 48 hours prior to the release of replacement water, or as required by the water commissioner.
- 7. Replacement of lagged depletions, including those lagged depletions that occur to the stream after the expiration date of this SWSP, must continue until there is no longer an effect on stream flow. Based on the consumptive use shown in the attached Table 2 and aquifer parameters as stated herein, lagged depletions will extend through June 2027 as shown in Table A attached to this SWSP.
- 8. The release of replacement water may be aggregated to maximize beneficial use. The water commissioner and/or the division engineer shall determine the rate and timing of an aggregated release.
- 9. The replacement water that is the subject of this plan cannot be sold or leased to any other entity. As a condition of subsequent renewals of this substitute water supply plan, the replacement water must be appurtenant to this site until a plan for augmentation is obtained. All replacement water must be concurrent with depletions in quantity, timing and locations.
- 10. In the event that Loveland plans to use C-BT Project water as a replacement source, Loveland shall comply with the Interim Rule issued by the District in May 2005 regarding the use of C-BT

Project water in substitute water supply plans. Prior to the use of the C-BT Project water, Loveland shall notify this office, the division engineer and the water commissioner of the amount of C-BT Project water dedicated to this plan and provide a copy of the District's approval letter as required by paragraph I(g) of the District's May, 2005 Interim Rule.

- 11. The name, address and phone number of the contact person who will be responsible for the operation and accounting of this plan must be provided with the accounting form to the division engineer and water commissioner.
- 12. The Applicant shall provide daily accounting (including, but not limited to diversions, depletions, replacement sources, and river calls) on a monthly basis. The accounting must be uploaded to the CDSS Online Reporting Tool within 30 days of the end of the month for which the accounting applies (https://dwr.state.co.us/Tools/reporting). Instructions for using the tool are available on the Division of Water Resources website on the "Services" → "Data & Information" page under the heading of Online Data Submittal. Accounting and reporting procedures are subject to approval and modification by the division engineer. Accounting forms need to identify the WDID number for each structure operating under this SWSP. Additional information regarding accounting requirements can be found in the attached Augmentation Plan Accounting Protocol. NOTE: Monthly accounting, even during the winter non-irrigation season, is required.

In addition, the Applicant shall verify that the City of Loveland ("Loveland") included replacement water for this SWSP in their monthly accounting. It is the Applicant's responsibility to ensure Loveland releases the leased water in the correct time, place, and amount.

- 13. Conveyance loss for delivery of replacement water to the location where depletions from the Kauffman No. 1 Pit impact the Big Thompson River is subject to assessment and modification as determined by the division engineer.
- 14. In order to prevent injury to other water rights, the division engineer and water commissioner must be able to administer Applicants' replacement water past headgates on the river at times when those headgates would otherwise be legally entitled to divert all available flow in or "sweep" the Big Thompson River or its tributaries. Applicant shall not receive credit for replacement of depletions to the Big Thompson River below such diversion structures unless bypass and measurement structures are in place to allow the division engineer and water commissioner to confirm that Applicant's replacement water is delivered past the headgates. In the event that delivery past dry-up points requires the use of a structure for which a carriage or use agreement with a third party is required, Applicant shall be responsible for securing such agreement. Until such time as the Applicant provides a copy of the carriage or use agreement to the division engineer and water commissioner, no credit will be allowed for replacement of depletions to the Big Thompson River below such diversion structure.
- 15. The Division of Water Resources will not be responsible for any enforcement or administration of third party agreements that are not included in a decree of the water court.
- 16. The approval of this substitute water supply plan does not relieve the Applicant and/or the landowner of the requirement to obtain a water court decree approving a permanent plan for augmentation or mitigation to ensure the permanent replacement of all depletions, including any long-term evaporation losses and lagged depletions after gravel mining has ceased. If reclamation of the mine site produces a permanent water surface exposing post-81 groundwater to evaporation, an application for a plan for augmentation must be filed with the Division 1 Water Court at least three (3) years prior to the completion of mining to include,

but not be limited to, long-term evaporation losses. Since there are no new depletions occurring after reclamation is complete, only the replacement of lagged depletions shall continue until there is no longer an effect on the stream. Granting of this plan does not imply approval by this office of any such court application(s).

- 17. In accordance with amendments to section 25-8-202(7), C.R.S., and "Senate Bill 89-181 Rules and Regulations" adopted on February 4, 1992, the state engineer shall determine whether the substitute supply is of a quality to meet requirements of use to senior appropriators. As such, water quality data or analysis may be requested at any time to determine if the water quality is appropriate for downstream water users.
- 18. The state engineer may revoke this SWSP or add additional restrictions to its operation if at any time the state engineer determines that injury to other vested water rights has or will occur as a result of this plan. Should this SWSP expire without renewal or be revoked prior to adjudication of a permanent plan for augmentation, all use of water at the pit must cease immediately.
- 19. The decision of the state engineer shall have no precedential or evidentiary force, shall not create any presumptions, shift the burden of proof, or serve as a defense in any pending water court case or any other legal action that may be initiated concerning this SWSP. This decision shall not bind the state engineer to act in a similar manner in any other applications involving other SWSPs, or in any proposed renewal of this SWSP, and shall not imply concurrence with any findings of fact or conclusions of law contained herein, or with the engineering methodologies used by the Applicant.

Please contact Sarah Brucker in Denver at (303) 866-3581 ext. 8249, or Michael Hein in Greeley at (970) 352-8712, if you have any questions concerning this approval.

Sincerely,

Suntac

for Jeff Deatherage, P.E. Chief of Water Supply

Attachments: Table A - Projected Lagged Depletions impacting the stream after the expiration date of this SWSP
Map 4 - Kauffman #1 Exposed Water Surface
Figure 2 - Kauffman #1 Pit Proposed Relocation of Pre-81 Credit (2010)
Tables 1-4
City of Loveland Lease
April 30, 2010 letter from DRMS
Augmentation Plan Accounting Protocol

Cc: Michael Hein, Lead Assistant Division Engineer, <u>Michael.Hein@state.co.us</u> 1809 56th Avenue, Greeley, CO 80634

Louis Flink, Tabulation/Diversion Records Coordinator, Louis.Flink@state.co.us

Dawn Ewing, Accounting Coordinator, Dawn.Ewing@state.co.us

Jean Lever, Water Commissioner, Water District 4, Jean.Lever@state.co.us

Amy Eschberger, Division of Reclamation Mining and Safety, Amy. Eschberger@state.co.us

Table AProjected Lagged Depletions impacting the stream after the expiration date of this SWSP (acre-feet)Kauffman No. 1 Pit

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
2024	-0.365	-0.280	-0.254	-0.209	-0.184	-0.152	-0.134	-0.115	-0.095	-0.084	-0.069	-0.061	-2.002
2025	-0.052	-0.040	-0.038	-0.032	-0.028	-0.023	-0.020	-0.017	-0.014	-0.013	-0.011	-0.009	-0.297
2026	-0.008	-0.006	-0.005	-0.004	-0.004	-0.003	-0.003	-0.002	-0.002	-0.002	-0.002	-0.001	-0.046
2027	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	0						-0.006







Figure 2 of 2

Kauffman Pit #1 Jake Kauffman and Son, Inc.

Consumptive Use - 2023

	Aggregate	Water Retained	Water Used for	Water Used for	Total Operational	Evaporative	Total
Month	Production	in Product	Dust Control	Irrigation	Consumptive Use	Consumptive Use	Consumptive Use
	(Tons)	(ac-ft)	(ac-ft)	(ac-ft)	(ac-ft)	(ac-ft)	(ac-ft)
January	0	0.00	0.00	0.00	0.00	0.00	0.00
February	0	0.00	0.00	0.00	0.00	0.00	0.00
March	0	0.00	0.46	0.00	0.46	0.00	0.46
April	0	0.00	0.74	0.00	0.74	0.00	0.74
May	0	0.00	0.74	0.00	0.74	0.00	0.74
June	0	0.00	0.83	0.00	0.83	0.00	0.83
July	0	0.00	1.11	0.00	1.11	0.00	1.11
August	0	0.00	0.87	0.00	0.87	0.00	0.87
September	0	0.00	0.86	0.00	0.86	0.00	0.86
October	0	0.00	0.72	0.00	0.72	0.00	0.72
November	0	0.00	0.28	0.00	0.28	0.00	0.28
December	0	0.00	0.00	0.00	0.00	0.00	0.00
Totals	0	0.00	6.60	0.00	6.60	0.00	6.60

Kauffman Pit #1 Jake Kauffman and Son, Inc.

Consumptive Use Values (ac-ft)- 2000 - 2024

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	TOTAL
2000	0.69	0.93	1.29	2.42	3.25	4.41	4.86	4.33	2.66	2.16	1.03	0.79	28.82
2001	0.69	0.93	1.29	2.42	3.25	4.41	4.86	4.33	2.66	2.16	1.03	0.79	28.82
2002	0.69	0.93	1.29	2.42	3.25	4.41	4.86	4.33	2.66	2.16	1.03	0.79	28.82
2003	0.69	0.93	1.29	2.42	3.25	4.41	4.86	4.33	2.66	2.16	1.03	0.79	28.82
2004	0.69	0.93	1.29	2.42	3.25	4.41	4.86	4.33	2.66	2.16	1.03	0.79	28.82
2005	0.56	0.76	1.11	2.04	2.75	3.71	4.08	3.64	2.23	1.81	0.87	0.63	24.19
2006	0.56	0.76	1.11	2.04	2.75	3.71	4.08	3.64	2.23	1.81	0.87	0.63	24.19
2007	0.57	0.76	1	1.91	2.54	3.49	3.85	3.44	2.11	1.72	0.81	0.66	22.86
2008	0.56	0.73	0.91	1.77	2.35	3.25	3.6	3.22	1.98	1.62	0.75	0.65	21.39
2009	0.44	0.57	0.73	1.41	1.88	2.59	2.87	2.56	1.57	1.28	0.6	0.52	17.02
2010	0.44	0.57	0.73	1.41	1.88	2.59	2.87	2.56	1.57	1.28	0.6	0.52	17.02
2011	0.44	0.57	0.73	1.41	1.88	2.59	2.87	2.56	1.57	1.28	0.6	0.52	17.02
2012	0.26	0.34	1.07	1.3	1.67	2.05	2.18	1.97	1.55	1.26	0.37	0.29	14.31
2013	0	0	0	0	0.07	0.71	0.56	0.55	0.17	0	0	0	2.06
2014	0	0	0	0	0.09	0.63	0.55	0.54	0.65	0.36	0	0	2.82
2015	0.000	0.000	0.276	0.295	0.000	0.120	0.470	0.819	0.387	0.221	0.000	0.000	2.59
2016	0.000	0.000	0.074	0.737	0.433	0.718	0.792	0.700	0.506	0.534	0.000	0.000	4.49
2017	0.000	0.000	0.310	0.460	0.260	0.570	0.580	0.830	0.390	0.000	0.000	0.000	3.40
2018	0.000	0.000	0.387	0.663	0.617	0.746	0.709	0.764	0.764	0.322	0.000	0.000	4.97
2019	0.000	0.000	0.130	0.230	0.290	0.490	0.670	0.700	0.480	0.280	0.000	0.000	3.27
2020	0.000	0.000	0.080	0.290	0.410	0.590	0.680	0.530	0.520	0.380	0.000	0.000	3.48
2021	0.000	0.000	0.060	0.150	0.200	0.630	1.110	0.870	0.860	0.720	0.280	0.000	4.88
2022	0.000	0.000	0.190	0.540	0.540	1.060	0.900	1.180	0.620	0.610	0.280	0.000	5.92
2023	0.000	0.000	0.460	0.737	0.737	0.830	1.110	0.870	0.860	0.720	0.280	0.000	6.60
2024	0	0	0	0	0	0	0	0	0	0	0	0	0

Notes:

For 2000 - 2012, the consumptive use values are taken from the Substitute Water Supply Plan submittals for the Kauffman #1 gravel pit.

For 2013 - 2022, the consumptive use values are actual water use values reported by Kauffman for dust control purposes except for Nov 2022, (projected Nov 2022 SWSP values).

Kauffman Pit #1 Jake Kauffman and Son, Inc.

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
2004	-0.90	-1.04	-1.31	-2.19	-2.96	-3.97	-4.50	-4.21	-2.93	-2.35	-1.41	-1.05	-28.82
2005	-0.80	-0.89	-1.15	-1.88	-2.53	-3.36	-3.79	-3.55	-2.47	-1.98	-1.20	-0.87	-24.47
2006	-0.75	-0.86	-1.12	-1.85	-2.51	-3.34	-3.78	-3.54	-2.46	-1.97	-1.19	-0.86	-24.23
2007	-0.75	-0.85	-1.04	-1.74	-2.33	-3.14	-3.57	-3.35	-2.33	-1.87	-1.12	-0.86	-22.94
2008	-0.73	-0.82	-0.96	-1.61	-2.16	-2.93	-3.33	-3.13	-2.19	-1.76	-1.04	-0.83	-21.48
2009	-0.63	-0.67	-0.79	-1.31	-1.74	-2.35	-2.67	-2.50	-1.74	-1.40	-0.83	-0.67	-17.29
2010	-0.57	-0.64	-0.76	-1.28	-1.72	-2.33	-2.66	-2.49	-1.73	-1.39	-0.83	-0.66	-17.06
2011	-0.57	-0.63	-0.76	-1.28	-1.72	-2.33	-2.65	-2.49	-1.73	-1.39	-0.83	-0.66	-17.03
2012	-0.26	-0.24	-0.33	-0.54	-0.73	-0.95	-1.18	-1.33	-1.37	-1.32	-1.18	-0.96	-10.39
2013	-0.79	-0.64	-0.54	-0.46	-0.43	-0.71	-0.74	-0.70	-0.48	-0.29	-0.21	-0.17	-6.17
2014	-0.15	-0.13	-0.11	-0.09	-0.13	-0.41	-0.49	-0.50	-0.56	-0.44	-0.19	-0.10	-3.30
2015	-0.08	-0.06	-0.09	-0.16	-0.15	-0.11	-0.17	-0.32	-0.39	-0.31	-0.23	-0.16	-2.23
2016	-0.13	-0.11	-0.10	-0.14	-0.21	-0.31	-0.42	-0.48	-0.48	-0.46	-0.39	-0.26	-3.51
2017	-0.21	-0.17	-0.19	-0.27	-0.30	-0.32	-0.39	-0.47	-0.49	-0.37	-0.25	-0.20	-3.63
2018	-0.17	-0.14	-0.18	-0.30	-0.39	-0.45	-0.51	-0.55	-0.58	-0.55	-0.41	-0.29	-4.52
2019	-0.24	-0.20	-0.19	-0.21	-0.24	-0.29	-0.37	-0.45	-0.47	-0.41	-0.32	-0.23	-3.62
2020	-0.18	-0.15	-0.14	-0.18	-0.24	-0.31	-0.40	-0.44	-0.43	-0.42	-0.34	-0.23	-3.46
2021	-0.19	-0.16	-0.14	-0.15	-0.17	-0.25	-0.43	-0.57	-0.60	-0.62	-0.55	-0.41	-4.24
2022	-0.29	-0.24	-0.23	-0.30	-0.38	-0.50	-0.63	-0.70	-0.73	-0.66	-0.60	-0.46	-5.72
2023	-0.34	-0.28	-0.30	-0.42	-0.52	-0.58	-0.67	-0.74	-0.74	-0.73	-0.64	-0.49	-6.45
2024	-0.36	-0.30	-0.25	-0.21	-0.18	-0.16	-0.13	-0.11	-0.10	-0.08	-0.07	-0.06	-2.01

Lagged Depletion Values (ac-ft) - Consumptive Use from 2000 - 2023 (projected)

Notes:

For the 2000 - 2011 period, the following parameters were used in the AWAS Model: W = 4,000 ft, Transmissivity = 50,000, Specific Yield = 0.2, X = 250 ft For 2012, the following parameters were used in the AWAS Model: W = 4,000 ft, Transmissivity = 50,000, Specific Yield = 0.2, X = 1,700 ft For the 2013-2014 period, the following parameters were used in the AWAS Model: W = 4,000 ft, Transmissivity = 50,000, Specific Yield = 0.2, X = 550 ft For 2015 - 2023, the following parameters were used in the AWAS Model: W = 4,000 ft, Transmissivity = 50,000, Specific Yield = 0.2, X = 550 ft

Kauffman Pit #1 Jake Kauffman and Son, Inc.

	Consumptive	Lagged	City of Loveland	Total Water Required
Month	Use	Depletions	Transit Losses	from City of Loveland
	(ac-ft)	(ac-ft)	(ac-ft)	(ac-ft)
January	0.00	-0.340	-0.014	-0.354
February	0.00	-0.280	-0.011	-0.291
March	0.46	-0.300	-0.012	-0.312
April	0.74	-0.420	-0.017	-0.437
May	0.74	-0.520	-0.021	-0.541
June	0.83	-0.580	-0.023	-0.603
July	1.11	-0.670	-0.027	-0.697
August	0.87	-0.740	-0.030	-0.770
September	0.86	-0.740	-0.030	-0.770
October	0.72	-0.730	-0.029	-0.759
November	0.28	-0.640	-0.026	-0.666
December	0.00	-0.490	-0.020	-0.510
Totals	6.60	-6.45	-0.258	-6.708

2023 Water Balance - Lagged Depletions and Replacement Supplies from City of Loveland

2024 Water Balance - Lagged Depletions and Replacement Supplies from City of Loveland

	Consumptive	Lagged	City of Loveland	Total Water Required
Month	Use	Depletions	Transit Losses	from City of Loveland
	(ac-ft)	(ac-ft)	(ac-ft)	(ac-ft)
January	0.00	-0.360	-0.014	-0.374
February	0.00	-0.300	-0.012	-0.312
March	0.00	-0.250	-0.010	-0.260
April	0.00	-0.210	-0.008	-0.218
May	0.00	-0.180	-0.007	-0.187
June	0.00	-0.160	-0.006	-0.166
July	0.00	-0.130	-0.005	-0.135
August	0.00	-0.110	-0.004	-0.114
September	0.00	-0.100	-0.004	-0.104
October	0.00	-0.080	-0.003	-0.083
November	0.00	-0.070	-0.003	-0.073
December	0.00	-0.060	-0.002	-0.062
Totals	0.00	-2.01	-0.080	-2.090

WATER LEASE

2021 THIS WATER LEASE ("Lease") is made and entered into this <u>7</u> day of <u>December</u>, 2022; by and between the CITY OF LOVELAND, COLORADO, a home rule municipality, whose address is 500 East Third Street, Loveland, Colorado 80537 ("City"), and JAKE KAUFFMAN & SON, INC. ("Lessee"), A Colorado corporation, whose address is 808 South County Road 9E, Loveland, Colorado 80537.

WHEREAS, Lessee desires to lease water that may be used for augmentation or replacement for the purpose of augmenting certain wells, ponds, or pumps along the Big Thompson River; and

WHEREAS, the City is the owner of certain water that may be used for purposes of augmentation or replacement and is willing to lease, on a temporary basis, a portion of its water to Lessee on the terms and conditions set forth herein.

NOW, THEREFORE, in consideration of the mutual covenants and agreements herein contained, the parties agree as follows:

1. <u>Term</u>. This Water Lease shall be effective for a term of three (3) years commencing January 1, 2022 and ending December 31, 2024, unless sooner terminated as provided herein. It is understood by Lessee that the leased water may not be available to Lessee in any future year and Lessee specifically waives any claim, legal or equitable, for the renewal of this lease and specifically disclaims any expectation for such renewal.

2. <u>Water</u>. The City shall provide up to ten (10) acre-feet of water for Lessee's purposes, which may include, but is not limited to Windy Gap water, water stored in Green Ridge Glade Reservoir, decant water from the Loveland Water Treatment Plant, effluent from the Loveland Waste Water Treatment Plant, and any other source legally and physically available to the City that may be used for augmentation or replacement.

Lessee must use the water for replacement of depletions, including evaporation, at Kauffman #1 Pit and Wagner/Kauffman #3 Pit, M-99-069, or as directed by the River Commissioner or the Office of the State Engineer. Lessee shall use the leased water only for augmentation or replacement purposes according to the terms of a substitute water supply plan (SWSP) approved by the Colorado Division of Water Resources. Lessee may not sell or lease the water and may not use it for any other purposes. Lessee shall take and use the leased water to the fullest extent possible, and shall undertake no action that could be construed as abandonment of the water rights.

3. <u>Annual Lease Payment</u>.

a. Regardless of water supply source, Lessee shall annually pay the City five hundred dollars (\$500) per acre-foot of water delivered under this Lease.

b. The City will submit an annual bill to the Lessee for all water supplied, in accordance with this Water Lease.

c. Lessee shall pay said amount to the City within thirty (30) days of receiving the City's bill.

d. Lessee shall supply to the City an anticipated schedule of replacement for the upcoming calendar year by December 1 of the previous calendar year. The Lessee is responsible for notifying the City if this schedule changes.

e. The City shall coordinate replacement or delivery of the leased water to the Big Thompson River with the River Commission or the Office of the Division Engineer for Water Division 1. Accounting of such delivery shall be made available to the River Commission or the Office of the Division Engineer for Water Division 1

4. <u>Termination by City</u>. In the event the City has an urgent need for water, as determined in the sole discretion of the City, the City may unilaterally terminate this Water Lease without cause. The City will endeavor to give Lessee thirty (30) days notice of such termination, but shall not be required to do so.

5. <u>Termination by Lessee</u>. After December 2024, the Lessee may terminate this lease providing written notice to the City prior to January 1 of the year in which the Water Lease is intended to be terminated. So long as lessee provides such advance notice, Lessee shall not be obligated to pay the Annual Lease payment for the year in which the Water Lease is terminated or any subsequent year.

6. <u>Termination of Delivery for Nonpayment</u>. In the event Lessee fails to pay for water when payment is due as set forth in paragraph 3, above, the City, in addition to seeking recovery of sums due, may terminate delivery of irrigation water to Lessee.

7. <u>No Sublease Allowed</u>. The Lessee shall not rent, sublet, or otherwise convey to any person or entity the right to use the leased water.

8. <u>Limitations of Water Lease</u>. The City grants no interest in the leased water to the Lessee other than as explicitly set forth in this Water Lease. Lessee shall make no claims to any rights, title, or interest in the leased water other than as explicitly set forth in this Water Lease. This Water Lease does not create a partnership or joint venture of any kind between the Parties, and the Lessee shall bear the entirety of any loss, cost, or expense incurred through its use of the leased water on the Property.

9. <u>No Warranties</u>. The City represents that it is the owner of the shares leased to Lessee but does not make any express or implied warranties or representations concerning the quality of the leased water or its suitability for use for irrigation purposes by Lessee. Delivery of water by the City under this Water Lease shall be on an "as is" basis only, and the City neither expressly nor impliedly warrants or guarantees the quality of the water or the quantity of water that will be yielded from the shares leased to Lessee. Lessee shall not hold the City liable for

any failure in delivery of the leased water, including, but not limited to, any failure in delivery due to force of nature or failure of water supply infrastructure.

10. <u>Notices</u>. Written notices required under this Water Lease and all other correspondence between the parties shall be directed to the following and shall be deemed received when hand-delivered or three (3) days after being sent by certified mail, return receipt requested:

If to the City:	City of Loveland Water and Power Department Attention: Todd Hanlin, Water Resources Manager 200 North Wilson Avenue Loveland, Colorado 80537
If to Lessee:	Jake Kauffman & Son, Inc. 808 South County Road 9E Loveland, Colorado 80537

11. Lessee agrees to exercise its rights under this Water Lease at its own risk. Lessee shall, to the extent authorized by Colorado law, indemnify and hold harmless the City from and against any cost, expense, or liability arising out of this Water Lease or related activities. Nothing in this Water Lease is intended to constitute a waiver, express or implied, of any of the immunities, rights, benefits, protections, or other provisions of the Colorado Governmental Immunity Act, C.R.S. §24-10-101 *et seq.*, as applicable now or hereafter amended.

12. <u>Governing Law and Venue</u>. This Water Lease shall be governed by the laws of the State of Colorado, and venue shall be in the County of Larimer, State of Colorado or the Water Court for Water Division 1 in the State of Colorado.

13. <u>Severability</u>. In the event a court of competent jurisdiction holds any provision of this Water Lease invalid or unenforceable, such holding shall not invalidate or render unenforceable any other provision of this Water Lease.

14. <u>Headings</u>. Paragraph headings used in this Water Lease are for convenience of reference and shall in no way control or affect the meaning or interpretation of any provision of this Lease.

15. <u>Assignability</u>. Lessee shall not assign this Water Lease without the City's prior written consent.

16. <u>Binding Effect</u>. This Water Lease shall be binding upon, and shall inure to the benefit of, the parties hereto and their respective heirs, personal representatives, successors, and assigns.

17. <u>Entire Agreement</u>. This Water Lease contains the entire agreement of the parties relating to the subject matter hereof and, except as provided herein, may not be modified or amended except by written agreement of the parties.

IN WITNESS WHEREOF, the parties have executed this Water Lease on the day and year first above written.

OF LOV

SEAL

OLORNOO

CITY OF LOVELAND, COLORADO By:

Todd Hanlin Department of Water and Power

ATTEST:

12-9-2021

Assistant City Clerk

APPROVED AS TO FORM: stant City Attorney

) ss.

١

Jake Kauffman & Son, Inc. By: 2roy A Ka-Keman

COUNTY OF LARIMER

The foregoing Water Lease was acknowledged before me this 3^{\prime} day of $\frac{1}{2022}$. Michelly K. Swenson

Witness my hand and official seal.

My commission expires _____

MICHELLE KRISTINE SWENSON Notary Public State of Colorado Notary ID # 20204019145 My Commission Expires 08-02-2024



Department of Water and Power

Service Center • 200 N. Wilson Avenue • Loveland, CO 80537 (970) 962-3000 • (970) 962-3400 Fax • (970) 962-2620 TDD www.cityofloveland.org

INVOICE

BILL TO: Jake Kauffman & Son Inc. 808 South County Rd 9E Loveland CO 80537

DATE: 11/18/2022

Quantity	Description of Water	Unit Price	Total
6.74 AF	2023 Reusable effluent	\$500/AF	\$3,370.00
(table attached)			

Make all checks payable to City of Loveland Payment is due within 30 days. If you have any questions concerning this invoice, contact Ryan Van Pelt | 970-962-3717 | ryan.vanpelt@cityofloveland.org

Thank you for your business!

Attachments: 2023 Kauffman Requested Augmentation Releases from Todd Williams_11-16-2022

Paid & executed 11/21/2022 Myun Van Pla

City of Loveland Augmentation Water Needed - Jake Kauffman and Son SWSPs

2023

Kauffman #1

			Total Replacement	
	Lagged Depletion (ac-ft)	Transit Losses (ac-ft)	Requirement (ac-ft)	
January	-0.340	-0.014	-0.354	
February	-0.280	-0.011	-0.291	
March	-0.300	-0.012	-0.312	
April	-0.420	-0.017	-0.437	
May	-0.520	-0.021	-0.541	
June	-0.580	-0.023	-0.603	
July	-0.670	-0.027	-0.697	
August	-0.740	-0.030	-0.770	
September	-0.740	-0.030	-0.770	
October	-0.730	-0.029	-0.759	
November	-0.640	-0.026	-0.666	
December	-0.490	-0.020	-0.510	
Annual Totals	-6.45	-0.26	-6.71	

2023

Wagner-Kauffman #3

-			Total Replacement	
	Lagged Depletion (ac-ft)	Transit Losses (ac-ft)	Requirement (ac-ft)	
January	-0.002	-0.0001	-0.002	
February	-0.002	-0.0001	-0.002	
March	-0.002	-0.0001	-0.002	
April	-0.002	-0.0001	-0.002	
May	-0.002	-0.0001	-0.002	
June	-0.003	-0.0001	-0.003	
July	-0.003	-0.0001	-0.003	
August	-0.004	-0.0002	-0.004	
September	-0.004	-0.0002	-0.004	
October	-0.004	-0.0002	-0.004	
November	-0.003	-0.0001	-0.003	
December	-0.003	-0.0001	-0.003	
Annual Totals	-0.034	-0.0014	-0.035	

Total Water Requirement

	Kauffman #1 Requirement (af)	Wagner-Kauffman #3 (af)	Total Monthly Requirement (af)
January	-0.354	-0.002	-0.356
February	-0.291	-0.002	-0.293
March	-0.312	-0.002	-0.314
April	-0.437	-0.002	-0.439
May	-0.541	-0.002	-0.543
June	-0.603	-0.003	-0.606
July	-0.697	-0.003	-0.700
August	-0.770 .	-0.004	-0.774
September	-0.770	-0.004	-0.774
October	-0.759	-0.004	-0.763
November	-0.666	-0.003	-0.669
December	-0.510	-0.003	-0.513
Annual Totals	-6.708	-0.035	-6.743

STATE OF COLORADO

DIVISION OF RECLAMATION, MINING AND SAFETY

Department of Natural Resources

1313 Sherman St., Room 215 Denver, Colorado 80203 Phone: (303) 866-3567 FAX: (303) 832-8106

M-1978-327



Bill Ritter, Jr. Governor

James B. Martin Executive Director

Loretta E. Piñeda Director

April 30, 2010

Jake Kauffman & Son, Inc 808 SCR 9E Loveland, CO 805370000

RE: Mining Operations with Exposed Ground water

To Whom It May Concern:

The Division of Reclamation Mining and Safety is responsible for ensuring that Sand and Gravel mining operators comply with the requirements of the Colorado Land Reclamation Act for the Extraction of Construction Materials (Act) and the Mineral Rules and Regulations of the Colorado Mined Land Reclamation Board for the Extraction of Construction Materials (Rules). Among these requirements are provisions for the protection of water resources. The Act requires that reclamation plans must ensure minimization of disturbances to the prevailing hydrologic balance, including disturbances to the quantity of water in the area affected by mining and in the surrounding areas. § 34-32.5-116(4)(h). Rule 3.1.6(1)(a) requires compliance with Colorado water laws and regulations governing injury to existing water rights both during and after mining. Permits must specify how the permittee will comply with applicable Colorado water laws and regulations governing injury to existing water rights. Rule 6.3.3(j); Rule 6.4.5(2)(c). After an extensive review, the Division determined that several operators may not have appropriate permit conditions to address certain reclamation liabilities arising from impacts to water resources.

In September 2009 the Division of Water Resources (DWR) updated its Guidelines for Sand and Gravel Pits. These guidelines provide guidance on achieving compliance with state law regarding replacement of depletions from sand and gravel mining, thus the guidelines provide a benchmark for the protection of hydrologic balance required under the Act and Rules. As noted in the Guidelines, sand and gravel operations which expose groundwater without complying with state law create a reclamation liability by impacting available groundwater.

State law requires that any person exposing ground water must obtain a well permit from the SEO pursuant to § 37-90-137(11). Because exposed groundwater results in out-of-priority water depletions, operations which expose ground water must also eventually obtain a water-court approved augmentation plan. Currently, several operators do not have either an augmentation plan or bonding to provide an alternative method to mitigate injurious stream depletions that result from mining-related exposure of ground water. The Division has a statutory duty to ensure that lands affected by mining are reclaimed in a manner that complies with state law and to ensure that operators have sufficient bonding to achieve reclamation. In order to assist operators in achieving compliance with these requirements, the Division proposes that, by April 30, 2011, operators should contact the Division and agree upon a plan for achieving compliance.

The Division has identified four approaches for operators:

- 1. File a financial warranty that will ensure backfilling of the pit to cover the exposed ground water to a depth of two feet above the static ground water level or,
- 2. Obtain a court approved augmentation plan prior to exposing ground water or,
- 3. File a financial warranty to cover the cost of installing a clay liner or slurry wall that meets the Division of Water Resources requirements for preventing ground water exposure or,
- 4. Obtain approval from the Division of Water Resources that acknowledges compliance with the SEO's requirements pursuant to § 37-90-137(11).

The Division will work with operators on an individual basis as they move to implement one of these plans. It is likely that options 1 and 3 will require the submittal of a technical revision or an amendment to the existing permit depending on the nature of the current mining and reclamation plan and the proposed changes. Increased financial warranties, as a result of these modifications, may be posted in a phased manner not to exceed three years. Amendments or revisions currently under review will be required to be approved by April 30, 2011 and may use the phased financial warranty approach described above. New applications going forward or presently under review by the Division will be required to meet the requirements of one of the options 1-4 at the time of application approval. Failure of affected operators to initiate contact with the Division and gain compliance as described above could result in an enforcement action being issued by the Division.

If you have any questions, please contact Tony Waldron at 303-866-3567, extension 8150.

cc: M1999069 Wagner/Kauffman Pit #3 M1978327 Kauffman Pit



Augmentation Plan Accounting Protocol June 2022

Accounting is an administrative tool to confirm water use is in accordance with a decree or other approval including that any required replacement is made to the stream system at the correct time, location, and amount. This guideline is subordinate to any decree language or Division Engineer specific accounting requirements. It describes basic augmentation plan accounting scenarios. Accounting for more complex scenarios can build on the fundamentals described herein.

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1. Background and definitions

A thorough description of augmentation plans for well pumping is available in the <u>Beginners Guide to</u> <u>Augmentation Plans for Wells</u>. The following terms are used in this document:

- **Diversions** are withdrawals from a well, stream, or pond/reservoir.
- **Depletions** are the volume of reduced streamflow caused by a diversion. Lagged depletions are those that occur at a later time than when water is diverted by well pumping or groundwater pond evaporation due to the timing of water movement through the subsurface between the well/groundwater pond and the stream.
- Hydrobase is DWR's database of water information.
- Colorado's Decision Support Systems ("CDSS") is a State of Colorado website (<u>https://cdss.colorado.gov/</u>) providing access to water data and tools.
- **Replacement water** is a volume of water provided to the stream system to replace depletions and satisfy the unmet needs of senior water rights. Replacement water is typically provided from a reservoir release or another source that has been contracted for the purpose of replacing depletions. Replacement water may also be provided in the form of historic consumptive use ("HCU") credits derived from a change of water right where the use of a water right was changed to augmentation.
- **Transit loss** is the diminishment of the amount of water in a stream as water travels from upstream to the downstream location.
- **Priority Admin Number** indicates the seniority of a water right; equal to the number of days between a water right's priority date and the earliest decreed priority, December 31, 1849. For example, the Priority Admin Number for a water right with a priority date of May 5, 1950 is 36650.00000. The lower the Priority Admin Number, the more senior the water right. The five digits to the right of the period are used when the postponement doctrine applies to a water right due to a delay in decreeing the water right in the court (read more about this in the <u>Administrative Call Standard</u>, Appendix A).
- Administrative Call is a term that indicates there are unfulfilled downstream water rights "calling" for curtailment of upstream junior water rights to fulfill their need. In accounting, when the downstream Administrative Call is from a senior water right (with a lower Priority Admin Number), diversions/depletions are out-of-priority and replacement water must be provided.
- **Balance** is the amount of replacement water minus the depletions and obligations, not considering the Administrative Call. The balance may be negative when the diversions resulting in the depletions are in priority.
- **Net Effect** is the amount of replacement water minus the depletions and obligations, considering the Administrative Call. When the net effect is zero or positive, it shows that the Augmentation Plan prevented injury by replacing all out-of-priority diversions/depletions.

2. Methods to submit accounting

a. Accounting and Reporting Uploader (preferred)

The preferred method to submit accounting is through the use of the <u>CDSS Accounting and Reporting</u> <u>Uploader tool</u>. To set up an online account, call or email the Division contacts for the appropriate Water Division as shown in Table 1. Additional information is available on DWR's website under Data and Information/Online Data Submittal.

b. Email

Submit via email to the Water Commissioner and the Division Accounting email shown in Table 1. File names for accounting sheets should include the 7 digit Augmentation Plan WDID assigned by the Division Engineer's office.

3. Timing of accounting submittal

Accounting must be submitted as specified by your decree, DWR administrative approval (SWSP, Replacement Plan, etc.), or as requested by the Division Engineer or designated representative(s). If timing is not specified, submit accounting with the timing shown in Table 1.¹

Division	Accounting Question & Submittal Email	Contact Phone Number	Standard Submittal Timing
1 - South Platte	Div1Accounting@state.co.us	970-352-8712	30 days after the end of the reporting month
2 - Arkansas	water.reporting@state.co.us	719-542-3368	10 days after the end of the reporting month*
3 - Rio Grande	<u>kevin.boyle@state.co.us</u>	719-589-6683	10 days after the end of the reporting month
4 - Gunnison	gregory.powers@state.co.us	970-249-6622	10 days after the end of the reporting month
5 - Colorado	<u>dnr_div5acct@state.co.us</u>	970-945-5665	10 days after the end of the reporting month
6 - Yampa/White	<u>brian.romig@state.co.us</u>	970-846-0036	Annually by November 15 or as needed upon request
7 - San Juan/ Dolores	<u>dnr_div7acct@state.co.us</u>	970-247-1845	10 days after the end of the reporting month**
Designated Ground Water Basins	chris.grimes@state.co.us	303-866-3851 ext. 8253	Annually by February 15 for the prior year

Table 1. Accounting Submittal Emails and Phone Number by Division

*for approvals deemed critical for administration; all others (including simple subdivisions) bi-annual readings before and after the irrigation season

** for approvals deemed critical for administration; annual submittals for others

Questions can be submitted to Ask DWR by visiting the DWR homepage at: <u>dwr.colorado.gov/</u>

¹ For proper administration, Water Commissioners may request regular and direct submission of water data in addition to accounting submittals described herein.

4. Overall organization of accounting spreadsheet and required information per tab

a. Overall organization

The following are typical spreadsheet tab names in accounting. See the <u>example and screenshots</u> <u>section</u> for an overview of what this might look like:

- i. Contact/Plan Information tab
- ii. Input tab(s)
- iii. Depletions & Obligations tab
- iv. Replacement tab
- v. Summary tab
- vi. DWR tab
- vii. DWR Meters tab
- viii. Version/Notes tab

Fewer or additional tabs as necessary for more simple or complex accounting, subject to approval by the Division Engineer

b. Contact/Plan Information Tab

The accounting must provide the contact information including name and email address for:

- i. The party(s) responsible for submitting the accounting
- ii. The plan administrator and/or the plan attorney
- iii. Water court case number (format of YYCWXXXX), SWSP name and 4-digit Plan ID, or Ground Water Commission Order represented in the accounting.
- iv. The 7-digit overall WDID(s) associated with the augmentation plan (not the individual structure WDIDs).²

c. Input Tab(s)

When possible, all cells showing diversion of water (well pumping and stream diversions) should be located on one or multiple input tabs as shown below. Cells with regular input, such as meter readings and reservoir releases, should be shaded a specifically identified color to distinguish them from cells that use formulas to convert or summarize the input.

Depending on the specific operation, the following may be included on Input tabs:

i. Estimated water use or evaporation:

When meters or measurement structures are not required, water consumption is estimated based on counts (number of homes, number of domestic animals, acreage of pond surface area, etc.) multiplied by a factor. Include a column or row for each of the following that are relevant to the augmentation plan:

- 1. Type of use: single family dwellings, domestic animals, area of lawn and garden (include units square feet or acres), area of pond evaporation (include units square feet or acres), etc.
- 2. Count or area input value for each type: the number of homes or domestic animals or the area (square footage or acres of home lawn and garden irrigation or pond surface evaporation). [this is the "Input" that could change regularly]

² Colorado Decision Support System Tools (<u>https://dwr.state.co.us/Tools</u>) can be used to find WDIDs (see Structures), court case numbers (see Water Rights), and other supporting information.

- 3. Factor to convert input to consumption in acre-feet.
- 4. Acre-feet of consumption.

ii. Well diversion data using flow meters:

Enter raw readings or measurements (e.g., from totalizing flow meters) and how those raw readings or measurements are converted to volumes of water. There should be one row or column for each well with a meter as described below. Once the spreadsheet formulas have been established, generally only the meter reading is entered with every submittal. The well and meter information may be located in a separate well & meter information tab (see example and screenshots section).

- 1. Well WDID
- 2. Well Permit Number
- 3. Priority Admin Number
- 4. Flow Meter Serial Number
- 5. Reading Date
- 6. Reading³ [this is the "Input" that will change regularly]
 - Enter reading exactly as shown on the face of the meter as a non-negative integer.
- 7. Comment
 - a. When a meter rolls over (such as from 999 to 000), is replaced or reset⁴, add a comment stating the old meter serial number, the maximum number before the rollover or replacement and then enter the number on the face of the meter at the end of the reporting period. Update the meter information section with the new meter's serial number.
- 8. Meter information:
 - a. Make
 - b. Model
 - c. The units represented by the digits on the meter (such as gallons or acre-feet)
 - d. Multiplier for meter reading (if applicable)
 - i. Residential well meters typically have a multiplier of 1.0 with units of gallons. Readings should generally report all numbers on the face of the meter (including non-rotating digits) with a multiplier of 1.0.
 - ii. Larger agricultural or commercial wells typically read in acre-feet and typically have a decimal multiplier. For instance, with a multiplier of 0.001, a meter reading of 123456 represents 123.456 acre-feet.
 - e. Correction factor
 - i. This is a multiplier used when a meter test shows a need to correct the installed meter to an accurate reading. This will be 1.0 when there is not a test showing a need for correction.
- 9. Acre-feet pumped

Use a formula to convert from the meter reading to acre-feet using the multiplier and correction factor. To convert meter readings in gallons to acre-feet, divide by 325,851.

iii. Well diversion data using Electricity Consumption

For wells approved to use power records and a Power Conversion Coefficient (PCC) to estimate water pumped, the accounting information is similar to well diversion data using flow meters (section 4.c.ii) above with the following replacements (instead of 6. "Reading" and 8. "Meter information):

³ A comment on the Meter Reading cell is used to note "Actual, Estimated, Corrected, or Calculated" for all wells subject to measurement rules when the entry is not based on a reading taken on the actual date specified. ⁴ Resetting a meter may be prohibited by local well measurement rules.

- 6. Power meter reading [this is the "Input" that will change regularly]
- 8. Power Meter Information
 - a. PCC

iv. Surface diversion data

Include a column or row for each surface diversion with the following information:

- 1. Diversion structure name or a.k.a.
- 2. Structure WDID
- 3. Measured flow through the measurement structure and units
 - a. If more than one water right is diverted through the structure, there should be adjacent columns for each. Each source should have a designated column or row and labeling should include the measuring structure WDID and the source of the water (e.g. case number).
 - b. If there is a multiplier that adjusts the standard measurement-flow relationship to reflect the actual measurement-flow relationship of the specific structure ("shift"), the adjusted value should be reflected in a separate column.
- 4. Priority Admin Number
- 5. Storage and release

If the diversion is to storage, which will be followed by a release of water, follow the instructions in the <u>Reservoir Accounting Guideline</u>.

v. Administrative Call (are diversions in-priority?)

In portions of Colorado, there may be times when depletions are in-priority, and do not require replacement. Depletions are in-priority when water rights on the stream system that are senior to the diversion have enough water and are not "calling" for more water.

1. Simplified (percent of month administrative call)

For certain basic accounting, such as subdivision well depletions, the Division Engineer may allow or apply an estimate of the days of expected administrative call each month. Typically, replacement water is provided based on projected call days, which is later compared to actual administrative call data to ensure that adequate replacement was provided. In this case, the accounting should have an input field either for the number of call days or the percentage of days in the month with a call.

2. Daily record of administrative call

Provide a column that shows whether depletions are either "IN" or "OUT" of priority each day.

- Locations with minimal call variation: In areas with minimal variation in the call, the Division Office may not require a formula comparing Priority Admin Numbers, but will accept manual entries of "IN" or "OUT" of priority each day.
- All other locations: "IN" or "OUT" of priority is determined daily using formulas comparing the Priority Admin Number of depletions to the Priority Admin Number of the calling water right in each depleted stream reach. Include a column for each of the following:
 - The Priority Admin Number of the calling water right. Calling structure information can be obtained programmatically from:
 - CDSS <u>REST</u> services insert a link that pulls the required information directly from DWR's database.
 - CDSS Administrative Calls tool.

DWR accounting staff can provide guidance on incorporating this information within an accounting spreadsheet.

- The Name of the calling water right
- "In" or "Out"-of-priority either for all structures covered by the accounting or for each structure in its own column. Use a formula to compare the Priority Admin Number of the calling structure to the Priority Admin Number of the structure(s) in the accounting.

d. Depletion & Obligation tab

Used to (1) convert well pumping (and groundwater pond evaporation) to lagged depletions impacting the stream and (2) show lagged depletions that are out-of-priority, and (3) include any additional water obligations of the plan for augmentation.

- i. Calculate lagged depletions Although well pumping and modeling may use a monthly step function to determine the depletions from pumping, the monthly result may, if requested by the Division Office or required by decree, then be divided by the number of days in the month in order to calculate a daily impact for daily water administration.
 - 1. Well Pumping (or groundwater pond evaporation) Reference back to the Input tab for the acre-feet of water pumped or evaporated.
 - 2. Consumption factor (%) If the decree or approval describes that a percentage of the water pumped is consumed and only the consumed amount is replaced.
 - 3. Acre-feet consumed Multiply the acre-feet pumped by the consumption factor.
 - 4. Delay Factors show factors that convert pumping in one month to depletions in future months. These may be percentages per month, that total 100 percent over an extended period of time.
 - 5. Depletions a formula that combines previous months and present month pumping with the delay factors to determine depletions impacting the stream this month and in future months.
- ii. Out-of-priority depletions are combined into one column for each reach considering the administrative call information included on the Input tab.
- iii. Return flow obligations (if applicable): Replacement water sources changed from a historical irrigation use usually have a return flow obligation that must also be tracked in accounting. Return flow obligations are similar to depletions because they must be replaced in time, place, and amount. Depending on decree language and preference, return flow obligations may be included under the replacement tab in section 4.e. below. For each replacement source with return flow obligations, include the following:
 - the basis and volume of the return flow obligation,
 - the location of the return flow obligation,
 - replacement of the return flow obligation.

e. Replacement tab

List each structure providing replacement water, transit loss information, and volumes released:

- i. Structure providing replacement water: name of reservoir, ditch, well, leased or other replacement water, its WDID, and the water court decree allowing its use for augmentation or replacement. For instructions on accounting for replacement using recharge accretions, refer to specific recharge guidance.
- ii. Replacement water travel distance (miles) the distance from the point of release to the location of the out-of-priority depletion where replacement is owed
- iii. Transit loss percent per mile (%)

- iv. Total transit loss (%)
- v. Volume released (acre-feet)
- vi. Transit loss volume (acre-feet)
- vii. Volume delivered (acre-feet) equal to volume released minus transit loss volume
- viii. Return flow obligations (acre-feet): Depending on decree language as described above, these may be included here instead of in the depletion tab. See description under section 4.d. above.

f. Summary Tab

The Summary Tab is used to calculate the Net Effect of the Plan on each impacted stream reach. The summary should reference back to information and formulas in the other spreadsheet tabs. The summary tab compares obligations, replacements and that replacements equal or exceed obligations in time, place, and amount. The Summary tab should only summarize data and calculations located in other tabs of the accounting. It should not contain manual entries, input data, or make calculations that are used in other tabs.

The Summary Tab should contain the following for each impacted stream reach (typically on a daily basis or as required by the division office):

- i. Total depletions and obligations
- ii. Total replacement
- **iii.** Balance Total replacement minus total depletions and obligations, which may be negative when the diversions resulting in the depletions are in priority.
- **iv.** Net Effect Total replacement minus out-of-priority depletions and obligations. If the net effect is negative, the Plan resulted in injury.

g. DWR tab for Diversion Record Data Import

A tab titled "**DWR**" can be used to convert data input or numbers calculated in other tabs into rows that represent diversion record water classes, which DWR staff can upload to create official diversion records. When appropriate, DWR staff will develop this tab or work with plan owners to develop this tab, and ensure it follows the format shown in the "<u>Diversion Record Spreadsheet User</u> <u>Guide</u>" and utilizes water classes according to the <u>Diversion Records Standard</u>. This format is necessary to allow the records to be imported directly into Hydrobase.

h. DWR Meters tab for Meter Reading Data Import

A tab titled **"DWR Meters"** can be included for use in bulk uploading meter readings. This calculates pumping totals in compliance with well rules or to meet other Division-specific requirements. In order for this tab to be bulk uploaded into Hydrobase, the columns in this tab must be formatted as shown in the "User Guide - How to Bulk Upload Meter Readings".

i. Version/Notes tab

A tab to document changes in accounting formulas and the date of those changes.

5. Requirements and recommendations for all tabs

- a. Accounting should show how raw input data is manipulated using formulas to determine the resulting impact on the river. Accounting must therefore include a functional spreadsheet (ie no pdfs) showing all operations, formulas, etc. to clearly show calculations.
- b. The use of a water year of November 1 through October 31 is required unless specifically decreed otherwise. When a different water year is required by decree, DWR may request additional months of data in the accounting to include the November 1 through October 31

time period, resulting in more than 12 months of data being reported.

- c. For all tabs other than the Summary tab, include running accounting for the entire water year without monthly subtotals. Monthly subtotals commonly result in errors in the spreadsheet. The Summary tab can be used as a place to show monthly totals.
- d. Date fields should be complete dates (month, day, and year, recognized as a date value by the spreadsheet software) but may be formatted to display as desired.
- e. Use consistent cell color shading to clearly identify the different types of information, such as manual input cells and formula cells (provide a legend for data types, see example below)
- f. Enter "0" in cells to document no diversion or use, rather than blanks, hyphens, or another character.
- g. When a formula is overwritten with a manual entry, the cell should be highlighted and a comment added for the reasoning.
- h. When there are multiple stream reaches involved, organize accounting from upstream to downstream.
- i. Footnotes should be utilized, as necessary, to describe the basis for formulas, calculations imposed on the raw input data, and column descriptions.

6. Example, Screenshots, and Spreadsheet Templates

Water users may request spreadsheet templates from their local division office for use as examples of how accounting may be assembled, but are responsible for developing their own functional accounting customized for their own Plan requirements. Note that example and actual accounting may have slightly different organization than what is described above.

a. (List of relevant tabs)

	А	В	C	;	D	E	F	G	Н	I.	
1											
2		Example Aug Pla	an								
3		Case No. 12CW3456						1		1	
4		Plan WDID: 0101234		At the	e bottor	n of the	workbook va	ou will s	ee tab	s for	
5											
6		Water Year		all the	e pertin	ent infor	mation.				
7		2021			•						
8				نام + مرا		la tha a	بريد بالعربية المرموم			ting	
9				in this	s examp	ne, the c	omplexity w	arrants	separa	aung	
10				thom	into dif	foront to	hstie Cont	act and	Dlan		
11				them	into un		ibs. i.e. com	actanu	FIAII		
12		Person responsible for	Accounting:	Inform	nation	Well and	Motor Info	rmation	Denla	ations	
13		(Name of Contact)		mon	nation,	wenand		mation	, Depi	etions	
14		(Address)		and C)hligatic	ns Evan	nle Pond R	enlacer	nents		
15		(Email)		and C	bigatic	, LAAN	ipie i onu, n	epiacei	nents,		
16		(Phone)		Sumn	nary DV	WR and	Version tabs				
17				Junn	nary, Dv	vit, and	version tabs	•			
18		Aug Plan Contact:			<u> </u>						—
19		(Name of Contact)									
20		(Address)			Develation		Deula contanta D	anala Danal	C		
20	Þ	Contact & Plan Info	Well & Me	eter Informati	on Depletie	ons & Obligation	s Replacements Ex	ample Pond	Summary	DWR Ver	sion

b. (Contact & Plan Information)



c. (Well & Meter Information)

	А	В	С	D	E	F	G	Н	
1		Example Aug Well & Meter In	Plan formation						
3 4 5		Water Year 2021				Met	er and Well	informa	tion This
6			Well Information			5110	ulu be kept c	unent.	11115
7		Name	Well 1	Well 2		infor	mation is ver	ified thr	ough
8		WDID	0104567	0105678					0.911
9		Permit No.	12345F	12346FR		field	visits and m	eter tes	ting.
10		Owner	John Brown	Jane Smith					-
		Contact	123 Fake St.	124 Fake St.		If cor	woniont this	inform	ation
			Springfield CO	Springfield CO			ivenient, this		ation
11			80123	80123		can b	e listed on t	he tab w	/here
12			Meter Information		K				
13		Make	McCrometer	McCrometer		mete	er readings ai	re enter	ed or 🛛
14		Model	MO310	MO306					
10		Serial Number	9-8-RC263N	15-08090-6		se	parated as sh	iown he	re.
17		Multiplier	0.931	0.001					
18		Units	o.ooi	acre-feet	1				
19 20 21 22		* Owner and Contac	ct info is not needed	here if the wells are	u owned	by the owne	r of the plan.		
23									
	•	Contact &	Plan Info Wel	l & Meter Infor	matio	n Deple	etions & Obligation	s Replac	ements E

d. (Depletions & Obligations) - in this example, the Depletions & Obligations tab includes cells for entering meter readings, calculating well pumping over the period, and converting that to lagged depetions.

	Α	В	С	D	E	F	G H I J
1 2 3 4 5		Example Depletions Water Yea 2021	Aug Plan & Obligati r	ons			The Meter Reading section is a manual entry section of the
6 7			Mete	r Readings ((EOM)	\langle	tab. This should be the actual
8 9		Month	Well 1 0104567	Reading Type	Well 2 0105678	Reading Type	meter reading as shown on the face of the meter.
11		10	(ar) 124651 124653	Actual	(ar) 133356 133358	Actual	columns/rows may be added
13 14		12 1	124655 124657	Calculated Actual	133360 133362	Calculated Actual	to calculate multipliers,
15 16		2 3	124659 124661	Actual Actual	133364 133366	Actual Actual	correction factors, or
17 18 19		4 5 6	124663	Actual "	133368	Actual "	conversions.
20	•	- 7 Contact	& Plan Info	" Well & Me	eter Informat	ion Deple	tions & Obligations Replacements Example Pond

e. (Depletions & Obligations)

A	B C D E F	G	Н	I	J	K	L
6	The Well Pumping section		1	Well Pumpi	ng		
7	calculates the value of the amount		Multiplier	0.001	0.001		
8	of pumping determined by the		Correction Factor	0.931	1		Previous Year Pum
9				Well 1	Well 2		
10	difference in the monthly (or the	1	Month	0104567	0105678		Month
12	frequency as required) reading by		11	0.00186	0.00200		11
13			12	0.00186	0.00200		12
14	the subsequent monthly reading		1	0.00186	0.00200		1
15			2	0.00186	0.00200		2
10	and then factoring in values for		3	0.00186	0.00200		3
18			4	0.00186	0.00200		4
19	multipliers, correction factors		6				6
20			7				7
21	and/or conversions.		8				8
22			9				9
23	10 "	_	10				10
	Contact & Plan Info Well & Meter Information Depleti	ons & O	bligations	Replacemen	ts Example F	ond	Summary DWR

f. (Depletions & Obligations) - calculate lagged depletions for the month



g. (Depletions & Obligations) - convert monthly lagged depletions to daily

25	A B	С	D	E	F	G	Н	1	J	К	L	М
26 27			Li	agged Depletio	ns	-	Re	eturn Flow Obli	gations		Lagge	d
	DATE	Well 1	Well 2	Well 1 Out-of-	Well 2 Out-of-	Total Out-of-	Subsurio			u Dep	letion	s can
28 29 30		0104567 (cfs)	0104567	Priority 0105678 (cfs)	0105678	Priority	RFO (cfs)	(cfs)		now	be pr	orated
31	11/1/2020	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	into a	a daily	value
33 34	11/2/2020	0.01	0.01	0.01	0.01	0.03	0.03		0.03	to de	termi	ne the
35 36	11/4/2020 11/5/2020	0.01	0.01	0.01 0.01	0.01	0.03	0.03		0.03	daily	deple	tion to
37 38	11/6/2020 11/7/2020	0.01	0.01	0.01 0.01	0.01	0.03	0.03		0.03	, the ri	ver fr	om the
39 40	11/8/2020 11/9/2020	0.01	0.01	0.01	0.01	0.03	0.03		0.03	Δ	u o Pla	an
41 42 43	11/10/2020	0.01	0.01	0.01	0.01	0.03	0.03		0.03			
43	Co	ntact & Plan Inf	fo Well 8	k Meter Inform	nation D	epletions & C	Obligations	Replacemer	nts Example P	Pond Summar	ry DWR	Version

h. (Replacements)

1	А	В	С	D	E	F	G	Н	1	J	K	
1 2 3 4 5		Example Aug Replacements Water Year 2021	Plan									
6			Previous Year's Total	Exam	ple Aug St	ation	Р	ond Relea	se	Total		
7 8		DATE	131 Diversion of Changed Shares	Total Through Structure	Transit Loss	Credit at Reach	Release For Aug	Transit Loss	Credit at Reach	Total Aug Credits		
9 10 11			(cfs) (1)	(cfs) (2)	(cfs) (3)	(cfs) (4)	(cfs) (5)	(cfs) (6)	(cfs) (7)	(cfs) (8)		
162		3/31/2021					0.00	0.00	0.000	0.000		
163		4/1/2021	0.10	0.10	0.00	0.10	0.00	0.00	0.000	0.097		
164		4/2/2021	0.10	0.10	0.00	0.10	0.00	0.00	0.000	0.097		
165		4/3/2021	0.10	0.10	0.00	0.10	0.00	0.00	0.000	0.097		
166		4/4/2021	0.10	0.10	0.00	0.10	0.00	0.00	0.000	0.097		
167		4/5/2021	0.10	0.10	0.00	0.10	0.00	0.00	0.000	0.097		
168		4/6/2021	0.10	0.10	0.00	0.10	0.00	0.00	0.000	0.097		
169		4/7/2021	0.10	0.10	0.00	0.10	0.00	0.00	0.000	0.097	_	
	۹	Conta	act & Pl	Wel	l & Meter II	nformation	Deplet	tions & Obl	ligations	Replaceme	ents	Examp
	Γ		Formatic	n shou	ld be s	haded	differer	atly the	on the			

Input information should be shaded differently than the calculated (cells with formulas) cells. Please provide a legend with the color/shading scheme.

i. (Summary) - daily

	Α	С	D	E	F	G	Н		J	К	L	М	N
1 2 3 4 5		Example Aug Summary Water Year 2021	Plan										
6						Depletions 8	Obligations			Replacement			
7 8 9		DATE	Call	Is Plan In Priority?	Lagged Depletions	OOP Lagged Depletions	RFOs	Total	Aug Station 0102345	Pond Release 0103456	Total Credits	Balance	Net Effect
10			(admin no.)	(y/n)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)
26		11/15/2020	(1)	(2) p	(3)	(4)	(5)	(6)	(/)	(8)	(9)	-0.01	-0.01
27		11/16/2020	21698.00000	n	0.03	0.03	0.03	0.06	0.00	0.06	0.06	0.00	0.00
28		11/17/2020	21698.00000	n	0.03	0.03	0.03	0.06	0.00	0.06	0.06	0.00	0.00
29		11/18/2020	21698.00000	n	0.03	0.03	0.03	0.06	0.00	0.06	0.06	0.00	0.00
30		11/19/2020	99999.00000	у	0.03	0.00	0.03	0.03	0.00	0.06		0.00	0.06
31		11/20/2020	99999.00000	y	0.03	0.00	0.03	0.03	0.00	0.0	0.06	0.00	0.06
32		11/21/2020	99999.00000	y	0.03	0.00	0.03	0.03	0.00		0.05	-0.01	0.05
33		11/22/2020	21698.00000	n	0.03	0.03	0.03	0.06		.05	0.05	-0.01	-0.01
24		Contact & Plan Info	Meter Information Deple	tions & Obligations	Replacements	Example Pond Sum	mary DWR			0.00	0.00	0.00	
		The Bala actual D plan is ir Depletio	ance colu epletion n or out ons and (umn is s/Ob of pri Obliga	s the b ligatio ority. I ations	oalance ns rega It is cal from R	e of Re ardless culate ceplace	placer of wh d by su ement	nents nether ubtrac s.	and the cting			

j. (Summary) - a monthly summary table may be added at the bottom of the Summary tab below the daily summary

A	, C	D	E	F	G	Н	1	J	K	L	М	N		
•	Monthly Summary													
	Month	Number of days Plan is In Priority (# of days) (1)	% of Days In Priority (%) (2)	Lagged Depletions (ac-ft) (3)	OOP Lagged Depletions (ac-ft) (4)	RFOs (ac-ft) (5)	Total (ac-ft) (6)	Aug Station (ac-ft) (7)	Res Release (ac-ft) (8)	Total (ac-ft) (9)	Balance (ac-ft) (10)	Net Effect (ac-ft) (11)		
	Nov-20	0.00	0%	1.77	1.77	1.81	3.58	0.00	4.26	4.26	0.68	0.68		
	Dec-20	0.00	0%	1.32	1.32	1.41	2.73	0.00	4.32	4.32	1.59	1.59		
	Jan-21	30.00	97%	1.25	0.04	1.15	1.19	0.00	0.77	0.77	-1.63	0.69		
	Feb-21	28.00	100%	1.17	0.00	0.89	0.89	0.00	0.00	0.00	-2.06	0.00		
	Mar-21	31.00	100%	1.17	0.00	0.88	0.88	0.00	0.00	0.00	-2.05	0.00		
	Apr-21	9.00	30%	1.25	0.04	0.84	0.88	3.83	0.00	3.83	1.75	2.38		
	May-21	0.00	0%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
	Jun-21	0.00	0%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
	Jul-21	0.00	0%	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		
	Aug-21	0.00	0%	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00		
	Sep-21	0.00	0%	0.00	0.00	0.00	0.00	0.00	0.0		0.00	0.00		
	Oct-21	0.00	0%	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00		
										-				
Þ	Contact &	Plan Info Well	& Meter Inf	ormation	Depletions &	Obligations		/	ple Pond	Summary	DWR V	/ersion		

Net Effect is the Balance or Net Impact value with the priority of the plan included. Plans considered in priority may not be required to replace depletions. This column represents whether the Aug plan shows injury to the river or has sufficiently replaced its uses.