COLORADO
Division of Water Resources
Department of Natural Resources

July 26, 2024

Jason M. Brothers, P.E.
Summit Water Engineering, Inc.
351 Coffman St., Suite 216
Longmont, CO 80501

Re: L.G. Everist Combined Substitute Water Supply Plan (WDID 0202618)
Carbon Valley Pit (formerly Lohmann Pit), DRMS No. M-2001-017 (WDID 0503003)
SWSP Plan ID: #3653
Firestone Pit, DRMS No. M-1996-052 (WDID 0503005)
SWSP Plan ID: #3583
Ft. Lupton Sand and Gravel Pit, DRMS No. M-1999-120 (WDID 0203040)
SWSP Plan ID: #3641
Ragsdale Gravel Pit, DRMS No. M-2020-007 (WDID 0210539)
SWSP Plan ID: #6225
Water Division 1, Water Districts 2 and 5

Approval Period: January 1, 2024 through December 31, 2025
Contact Information for Mr. Brothers: 303-557-2262 and jason.brothers@summitwatereng.com

Dear Jason M. Brothers:

This letter is in response to your letter received December 20, 2023 and the additional information from February 7, 2024, May 29, 2024, and July 26, 2024 requesting renewal of the above referenced substitute water supply plans to cover depletions caused by gravel mining operations at multiple mine sites operated by L.G. Everist ("Applicant") along the South Platte River mainstem and Saint Vrain Creek. The prior SWSP was approved on January 31, 2022 (amended on May 9, 2022) for the period of January 1, 2022 through December 31, 2023. The required fee of $1028 (4 x $257) was submitted with the SWSP request (receipt nos. 10033404, 10033405, 10033406 and 10033407). This plan proposes to replace depletions resulting from current and past mining at four sites as specified in Tables A and B below:

Table A - Gravel Pit Summary

Site Name	WDID	DRMS Permit Number	Previous SWSP Approval	Current Well Permit Number or Receipt Number	Exposed Surface (acres)	New Permit Required ?
Carbon Valley Pit (formerly Lohmann Pit)*	0503003	M-2001-017	4/27/2021	70326-F	2.71	No
Firestone Pit	0503005	M-1996-052	4/27/2021	84593-F	20.9	No
Fort Lupton Sand and Gravel Pit**	0203040	M-1999-120	4/27/2021	83471-F	30.08	No

Ragsdale Gravel Pit	0210539	M-2020-007	4/27/2021	85586-F	14.77	No

* Carbon Valley Pit (formerly Lohmann Pit) will be referred in this plan as the Carbon Valley Pit
** The DRMS permitted boundary for the Fort Lupton Sand and Gravel Pit (M1999—120) was amended to incorporate the Lupton Meadows Pit DRMS M-2002-104 previously included in this SWSP.

Table B – Gravel Pit Location

Site Name	Location	Stream Reach
Carbon Valley Pit	Sections 6, T2N, R67W	Saint Vrain Creek
Firestone Pit	Section 32, T3N, R67W	Saint Vrain Creek
Fort Lupton Sand and Gravel Pit	Section 25, 2N, 67W and Section 30, T2N, R66W	South Platte River
Ragsdale Gravel Pit	Section 7, Section 8, Section 17, Section 18, and Section 19, all in T2N, R66W	South Platte River

L. G. Everist anticipates active mining in 2024 and 2025 at Carbon Valley Pit and Firestone Pit on Saint Vrain Creek and Fort Lupton Sand and Gravel Pit and Ragsdale Gravel Pit site on the South Platte River. Depletions resulting from dewatering, evaporation and mining operations at these sites are replaced under this plan. Water use at these sites during the period of this plan will include dewatering, evaporation from exposed groundwater, aggregate production, dust control and concrete batching.

Three cells within the former Lupton Meadow Pit site (DRMS M2002-104) identified as Everist Reservoir No. 1 (WDID 0203046) and Meadow West Reservoir (WDID 0203932) and Vincent West Reservoir (WDID 0203949) were lined and have storage rights decreed in case no. 2013CW3080. The acreage associated with Everist Reservoir No. 1 and Meadows West Reservoir has been released from the permitted mining area of the Fort Lupton Sand and Gravel Pit. Additionally two other lined cells identified as the Swingle-North (WDID 0203931) and Parker-Panowicz (WDID 0203356) located on the northern side of the Fort Lupton Sand and Gravel Pit have storage rights decreed in case no. 2002CW330. The Swingle North Reservoir's slurry wall liner was approved by our office on March 27, 2013 as a provisional liner. By the liner approval letter, the Division of Water Resources ("DWR") will recognize the liner for the remainder of mining operations, however prior to its use as a water storage reservoir, the operator must perform a final leak test once mining is complete and the site is at final grade. The Parker-Panowicz Reservoir's slurry wall liner was approved by our office on February 4, 2014.

Mining depletions from Carbon Valley Pit and Firestone Pit are estimated to affect the Saint Vrain Creek below the Last Chance Ditch headgate in the SE1/4 of the NW1/4 of Section 3, Township 2 North, Range 68 West of the 6th P.M. Mining depletions from Fort Lupton Sand and Gravel Pit are estimated to affect the South Platte River above the Meadow Island Ditch No. 1 headgate in the NE1/4 of the SW1/4 of Section 19, Township 2 North, Range 66 West of the 6th P.M.

The proposed replacement sources for these pits are Rural Ditch Company shares, Lupton Bottom Ditch, and Lupton Meadow Ditch shares during the summer months. During the winter months, and for portions of the summer months where Rural Ditch Company shares and Lupton Bottom Ditch shares are not sufficient, the depletions will be replaced by fully consumable water leased from Cannon Land Company and Cannon Water LLP, the City of Aurora and/or the Central Water Conservancy District, and if needed, nontributary Laramie-Fox Hills water withdrawn from well permit nos. 77371-F, 77372-F, 77373-F, and 77374-F, water stores during free river in 2023 in lined Swingle-North, Parker-Panowicz and Fort Lupton West cells.

The Applicant is also seeking the option to use any other fully consumable sources (leases with the City of Aurora, Central Colorado Water Conservancy District, and Cannon) not specifically identified in the SWSP request that may be obtained during the period of the SWSP. Additional sources of replacement water in this SWSP may only be used if the Applicant complies with the Division One Administration Protocol "Use of Replacement Sources Not Specifically Identified in an SWSP or Augmentation Plan".

In accordance with the letter dated April 30, 2010 (copy attached) 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. 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 identified four approaches to satisfy this requirement.

In accordance with approach nos. 1 and 3, you have indicated that a bond has been obtained for each site that can cover the cost of lining of each site to prevent the exposure of groundwater. The current bond amount for each pit is shown in Table C below.

Table C – DRMS Bonding

Site Name	DRMS #	Bond Amount	Final Reclamation
Carbon Valley Pit	M-2001-017	$864,200	Compacted Clay Liner
Firestone Pit	M-1996-052	$1,454,400	Compacted Clay Liner
Fort Lupton Sand and Gravel	M-1999-120	$2,002,400	Slurry Walls
Ragsdale Gravel Pit	M-2020-007	3,535,000	Slurry Walls

Depletions

The depletions resulting from dewatering, evaporation, water lost in product, dust control and concrete production are shown in Table D below:

Table D – Depletion Summary

Site Name	Evaporation Loss (ac-ft)		Product Moisture Loss (ac-ft)		Dust Control (ac-ft)		Concrete Production (ac-ft)*		Total Depletions (ac-ft)		Total Net Lagged Depletions*** (ac-ft)	
	2024	2025	2024	2025	2024	2025	2024	2025	2024	2025	2024	2025
Carbon Valley Pit	6.94	2.26	2.94	0.03	0.18	0.24	0.0	0.0	9.88**	2.29**	8.55	5.58
Firestone Pit	52.84	50.63	36.79	39.00	1.07	1.15	9.21*	9.21*	89.63**	89.62**	89.02	89.54
St. Vrain Creek Net Depletions											**-97.57**	**-95.12**
Fort Lupton Sand and Gravel Pit	90.1	85.21	26.49	26.49	0.73	0.75	0.0	0.0	117.31	112.44	116.4	113.3

Ragsdale Gravel Pit	44.24	44.24	58.86	64.75	1.22	1.23	0.0	0.0	103.1**	108.99**	82.17	103.12
South Platte River Net Depletions											**-198.5**	**-216.42**
Total Net Depletions											**-296.0**	**-311.54**

*Based on 60,000 tons of concrete production for 2024 and 2025 and 50 gallons of water per ton of concrete at Firestone Pit

**The total depletions do not include water for dust control or concrete production at Carbon Valley Pit, Firestone Pit, and Ragsdale Pit since this water comes from pumping from dewatering.

*** The total net depletion does not include accretions credits or depletions from dewatering and accounts for water used for dust control and concrete production. The total net depletions including the accretions credits, and recharge credits or depletions from dewatering for 2024-2025 for all pits are shown on Tables 3, 4, 6 and 7 (attached)

The net evaporation for the Firestone Pit includes a credit of 0.60 acre-feet of consumptive use of ground water associated with the partial subirrigation of the historically irrigated acreage. No other phreatophyte credit was applied to the other sites. Although depletions estimated in this SWSP assume year-round evaporation depletions, computation of evaporation under this plan may be reduced during periods when the ponds are completely covered by ice.

Computation of the net evaporation during any time that the pits are not completely covered by ice shall be determined as the pro-rata amount of the monthly gross evaporation rate distribution amount identified in the State Engineer's *General Guidelines for Substitute Supply Plans for Sand and Gravel Pits,* subtracting the pro-rata amount of the effective precipitation for that period.

The material excavated from the gravel pit areas will be washed on site. The consumptive use of water associated with excavated material is dependent on the location of the material with respect to the water table. According to the "*General Guidelines for Substitute Water Supply Plans for Sand and Gravel Pits"*, the product moisture loss is calculated as four percent by weight of mined excavated washed material and two percent by weight for excavated not washed material. The quantity mined, and associated depletions, must be tracked separately for washed and unwashed mined material. The Applicant anticipates mining production for 2024 and 2025 at the four sites to be as follows:

- Carbon Valley Resource - 200,000 tons for 2024 and 1000 tons for 2025
- Firestone Pit - 1,300,000 tons (for 2024) and 1,450,000 tons (for 2025)
- Fort Lupton Sand and Gravel - 900,000 tons (for 2024) and 900,000 (for 2025)
- Ragsdale Gravel Pit - 2,000,000 tons (for 2024) and 2,200,000 (for 2025)

Water used for dust control at Carbon Valley Pit, Firestone Pit, and Ragsdale Gravel Pit will come from water originally pumped from the pits for dewatering. Water used for dust control at the Fort Lupton Sand and Gravel was previously obtained from an existing alluvial well, permit no. 57957-F (WDID 0205018 DI TIRRO WELL 2), located outside of the approved slurry wall on the Fort Lupton Pit site. Well permit no. 57957-F is no longer being used for dust control, as Everist has a recirculating water system at the site where reusable water is pumped from lined cells to wash material and for dust control.

Mining operations at the Ragsdale Gravel Pit site, started during 2021 and is proposed to be developed in 6 phases. The initial operations used water for Phase 3. During the initial operations,

water for dust control was pumped from the Cannon Pipeline. The Cannon Pipeline is a natural flowing perennial slough that drains into the South Platte River in the NW1/4 of Section 18, Township 2 North, Range 66 West, of the 6th P.M. Pumping water from the Cannon Pipeline resulted in instantaneous out-of-priority depletions to the South Platte River that were replaced under the previous SWSP amendment. After the initial stripping of Phase 3, groundwater was exposed in November 2021 within the Phase 1-A. Currently there is an unlined pond within the Phase 1-A area. During 2024 and 2025 L.G. Everist plans to mine Phase 1 and 2 and pump water from these two phases into the unlined pond on Phase 1-A area for recharge. A slurry wall to isolate groundwater from entering the pit was installed around Phase 1 area, however a leak test for Phase 1 slurry wall was not performed. Therefore a lagged depletions analysis must continue for the area mined within the slurry wall, until such time as a leak test is performed on the slurry wall and is determined to satisfy the requirement of the 1999 Guideline for Lining Criteria. The slurry wall around Phase 2 is expected to be completed during the period of this SWSP. Mining depletions from Ragsdale Gravel Pit site for Phase 1 and 2 are estimated to affect the Cannon Pipeline at point in the SE1/4 of the NE1/4 of Section 18, Township 2 North, Range 66 West of the 6th P.M. (UTMs E515838.7 and N4443423.2) (Figure 2). However, for the purpose of this SWSP, the confluence of the Cannon Pipeline and the South Platte River located in the NW1/4 of the NW1/4 of Section 18, Township 2 North, Range 66 West of the 6th P.M., will be treated as the administrative point of depletions.

The Rasdale Gravel Pit property has been historically used for irrigation. The source of the irrigation water (in addition to surface water) was four alluvial wells, permit nos. 16380-RR (WDID 0205631), 9524-F (0205633), 16382-R (0205632), and 5862-FR (0206656), which were previously augmented by the Ground Water Association of the South Platte River ("GASP"). The wells are no longer in use for irrigation. The Applicant previously requested the option to use water from these wells under this SWSP to supply water for mining operations at the site. There are no more lagged depletions from previous pumping for irrigation of these wells that will have an effect on the stream system. Use of these wells in a SWSP will require the Applicant to obtain new permits for the alluvial wells (permit nos. 16380-RR, 9524-F, 16382-R, and 5862-FR) prior to pumping water for any mining operation under this SWSP.

Continuous dewatering operations at Carbon Valley Pit, Firestone Pit, and Fort Lupton Pit site, are occurring or will occur in order to facilitate dry mining conditions. The dewatering water from the Carbon Valley Pit and Firestone Pit is used for dust control and concrete batching at these pits. All other water pumped from dewatering is returned immediately to the river system. The applicant has performed a lagged water balance for these operations and accounted for the lagged depletions, which is offset by monthly net accretions (as shown on attached Table 3, 4, and 6). Dewatering will also occur at Phase 1 and 2 of the Ragsdale Gravel Pit site. The above-listed wells are located within the Ragsdale Gravel Pit permitted mining area, therefore L.G. Everist may use the well structures for dewatering purposes. Consistent with other mining sites, dewatering will be treated as an instantaneous accretion with a lagged depletion (as shown on attached Table 7).

Totalizing flow meters have been installed at Carbon Valley Pit, Firestone Pit, Fort Lupton Pit and Ragsdale Gravel Pit sites and monthly meter readings showing dewatering volumes were reported on the 2022-2023 submitted accounting and must be reported as part of this SWSP.

A stream depletion model using the Glover method was used to calculate the lagged depletions to the River. The alluvial aquifer model uses four aquifer input parameters for each site as follows: 1) X-distance from centroid of the well to the river, 2) W-distance from the aquifer boundary through the well to the river channel, 3) T-transmissivity of the alluvial aquifer (in gallons per foot/day) between the well and the river, and 4) S-specific yield. The following parameters for each site listed in the table below were used in the model:

Table E – Aquifer Characteristics

Site Name	T	X	W	S
Carbon Valley Pit	50,000	2,000	4,173	0.2
Firestone Pit	72,300	2,210	2,262	0.2
Fort Lupton Pit	90,000	1,200	7,996	0.2
Ragsdale Gravel Pit Phase 1 and 2	170,633	1,456	8,586	0.2
Ragsdale Gravel Pit Phase 1A	186,320	530	5,410	0.2

Well permit nos. 16380-RR, 9524-F, and 16382-R are located within the same Phase 1 permit boundary, however different lagging parameters have been developed for these wells. Therefore, depletions from these wells will be determined using the aquifer parameters shown in Table F below.

Well permit no. 5862-FR is located in the eastern portion of the Ragsdale Gravel Pit site permit boundary, within Phase 4-B. In the eastern portion, the primary location of groundwater depletions will be to the Cannon Pipeline. Accordingly, aquifer parameters were developed to the Cannon Pipeline, as shown below in Table F. For the 2024-2025 period, the Applicant indicated that the wells will not be used in the SWSP.

Table F – Wells Aquifer Characteristics

Well Permit No.	T	X	W	S
16380-RR	161,171	538	8,343	0.2
16382-R	169,302	2,351	7,642	0.2
9524-F	163,101	1,592	7,199	0.2
5862-FR	162,710	2,430	5,550	0.2

Replacements

Saint Vrain Creek

1.9 shares of the Rural Ditch Company

L. G. Everist owns 1.9 shares of the Rural Ditch Company (WDID 0600551) that were previously used for irrigation on Brooks Farm. The City of Firestone has an option to purchase the 1.9 Rural Ditch shares and L.G. Everist gave the City of Firestone permission to include the shares in a change of use application filed with the Water Court in case no. 2019CW3236. In April 2021, a historical consumptive use ("HCU") analysis was prepared by Leonard Rice Water Engineers ("LRE Water") in support of the change of use in case no. 2019CW3236. The Applicant proposes to use that HCU analysis for this SWSP.

The period of analysis selected for the 1.9 shares is 1950 through 2012. For this period, diversion records for the Rural Ditch were downloaded from Hydrobase using Use 1 (irrigation) and Source 1 (river). Daily diversions for the Rural Ditch were adjusted to include only the diversion up to 83 cfs, the sum of the two senior Rural Ditch irrigation rights. The 62-year study period is representative of wet, average and dry years evidenced in the Saint Vrain Creek and the South Platte River Basin. The 1.9 shares of the Rural Ditch were historically used on Brooks property located in the NW1/4 of the NW1/4 of Section 6, Township 2 North, Range 67 West of the 6th P.M. (Figure 1 from engineering report for case no. 2019CW3236) approximately 51.8-acre (from 1950 through 1992) and 42.9 acres

(from 1992 through 2012) The land historically irrigated by the 1.9 shares is located within the currently mined permitted boundaries of Carbon Valley Pit. Thus all of the lands historically irrigated by the subject shares have been permanently dried up due to the mining operations.

The HCU analysis conducted for the 1.9 Rural Ditch relied on the following method and assumptions:

- Modeling using the State CU and the Modified Blaney-Criddle method with the TR-21 crop coefficients, adjusted for elevation.
- The total structure daily diversion records were limited to the period of proposed April 1 through October 31.
- Soil Conservation Service methodology for calculation of effective precipitation. The soils on the Brooks property include predominantly Heldt silty clay on 1 to 3 percent slopes with some Aquolls and Aquents gravels. The area weighted available water content for the irrigated area was estimated to be 0.1446 inches per inch.
- Assumed ditch loss of 10 percent.
- Temperature and precipitation data were taken from the Longmont 2 ESE climate station (ID 55116). The Longmont climate station is located approximately 7 miles from the Brooks property. Missing data were filled by historical averages for mean monthly temperature and total monthly precipitation, and by interpolation for minimum daily temperature.
- From the 1959, 1969, 1975, and 1985 aerial photos, approximately 51.8-acre were identified to have been irrigated from 1950 through 1992 and 42.9 acres from 1992 through 2012 34 on the Brooks property.
- The farm was flood and furrow irrigated and the crops grown were alfalfa, corn and barley through 1972 and alfalfa and corn thereafter.
- Based on 1-foot elevation contours generated from LIDAR (“Light Detection and Ranging”) data from October 2013, the average slope of the Brooks Farm is approximately 0.09 percent. According to Table 6-A-6 of the Colorado Irrigation Guide, the soils listed above at the average slope of 0.09 percent have a maximum irrigation efficiency ranging from 60 to 65 percent. Due to the presence of some gravelly soils on the property, a maximum irrigation efficiency of 60 percent was selected for flood and furrow irrigation for the crops grown on the Brooks property.
- Return flows assumed to be 33 percent surface water and 67 percent groundwater. Ground water return flow was analyzed using AWAS software based on the Glover methodology according to the parameters summarized in Table G.

Table G - Summary of Glover Parameters

Distance from Farm to River (ft)	Distance from boundary to River (ft)	Transmissivity (gpd/ft)	Specific Yield
3,073	15,000	28,603	0.2

The HCU results are summarized in Table H.

Table H - 1.9 Rural Ditch HCU Results

Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Farm Headgate Delivery	0	0	0	3.7	26.4	40.9	57.7	40.1	21.4	7.6	0	0	197.8
On Farm Depletion of	0	0	0	1.3	8.8	21.4	33.0	24.3	10.8	1.6	0	0	101.2

Surface Water													
Surface Return Flows	0	0	0	0.9	4.6	6.5	8.5	5.9	3.8	1.6	0	0	31.8
Ground Water Return Flow	0	0	0	1.9	9.3	13.2	17.2	12.0	7.8	3.2	0	0	64.7
Lagged Ground Water Return Flows	5.7	5.3	5.0	4.6	4.4	4.4	4.8	5.4	6.0	6.4	6.4	6.1	64.7
Total Return Flows	5.7	5.3	5.0	5.5	9.0	10.9	13.3	11.3	9.8	8.0	6.4	6.1	96.5
Average Net Depletion	-5.7	-5.3	-5.0	-1.9	17.4	30.0	44.5	28.8	11.5	-0.4	-6.4	-6.1	101.2
Return Flow Factor	2.8%	2.7%	2.5%	1.0%	34.1%	26.7%	23.1%	28.2%	45.8%	4.0%	3.2%	3.1%	NA

For the months of May through September the daily return flow obligation will be determined by multiplying the applicable monthly return flow factor by the total daily deliveries associated with the subject shares. For the months of October through April, the daily return flow obligation will be determined by multiplying the applicable monthly return flow factor by the previous year's (November through October) total deliveries associated with the subject shares, and then divided by the number of days in the month.

LG Everist operates an augmentation station from the Rural Ditch to the St. Vrain (WDID 0502305), located in Section 1, Township 2 North, Range 68 West of the 6th P.M. This augmentation station delivers water into a short ditch which conveys water to St. Vrain Creek upstream of the Carbon Valley Resource and Firestone Gravel Resource sites. The delivery location is below the Last Chance Ditch headgate and above downstream calling water rights located on the South Platte River. The Applicant proposes that deliveries will be limited to April through October. For the period of the SWSP, the Applicant's share delivery shall be limited to the historical monthly average and annual average farm headgate delivery as summarized in Table I. These amounts represent the historical average farm headgate diversions.

Table I - Monthly and Annual Volumetric Limits

Month	Apr	May	Jun	Jul	Aug	Sep	Oct	Total
Monthly Volumetric Farm Headgate Diversion limits (acre-feet)	3.7	26.4	40.9	57.7	40.7	21.4	7.6	197.8

If L.G. Everist reaches any of the volumetric limits, all of the water in excess of the volumetric limits will be returned to the river through the Rural Tail augmentation station without any credit on the excess water being available to L.G. Everist.

As part of the SWSP you have also requested approval to allow L.G. Everist to use its changed Rural Ditch water for uses associated with the mining operations at the Carbon Valley Pit and Firestone Pit since the sites are close to one another on the south side of the Saint Vrain Creek. The shares would be used directly at these two sites for uses associated with the mining operations.

We have reviewed your request and determined that since the Rural Ditch water dedicated to this SWSP was changed as part of the combined plan such water can potentially be used at the Carbon Valley Pit and Firestone Pit for uses associated with the mining operations at those sites, provided return flow obligation for the delivery of the Rural Ditch water are maintained by the combined plan, and the use of the Rural Ditch water for augmentation and direct use for mining operations uses is properly accounted for. In addition, L.G. Everist needs to demonstrate that sufficient replacement water sources are available to replace depletions at the Carbon Valley Pit and Firestone Pit sites. The approval to use the Rural Ditch water for mining operations at Carbon Valley Pit and Firestone Pit is for the 2024 and 2025 irrigation season. Diversion of the Rural Ditch water for mining operation uses at Carbon Valley Pit and Firestone Pit is limited to the historical average diversions and return flows must be calculated using the return flow factors listed in Table H above.

Excess credits generated at the Fort Lupton permit area on the South Platte River may be available for use at Saint Vrain sites (Carbon Valley Pit and Firestone Pit). Any credits from the Fort Lupton site to be used at the St Vrain site will only occur during periods without an intervening call (the potential calling right is the Western Mutual Ditch) and will account for transit losses for the approximately 15 river miles between the Fort Lupton site and the St Vrain Creek confluence with the South Platte River. Transit losses will be 0.50 percent per mile summer transit loss and 0.25 percent per mile winter transit loss. The transit loss percentages are subject to change depending upon current conditions. If transit losses change they will be communicated by the Division Engineer via email to the Division One Call List. The applicant shall obtain prior permission from the District 2 and 5 Water Commissioners when making releases from storage on the Fort Lupton site. Credit will not be given to any releases not measured and recorded to the satisfaction of the District 2 and 5 Water Commissioners or Division Engineer.

South Platte River

52 shares of the Lupton Meadow Ditch Company (LMDC)

L. G. Everist owns 52 LMDC shares and they are proposed to be used as a replacement water supply on the South Platte River.

According to the Applicant, the 52 LMDC shares were historically used for irrigation on the Sandstead Parcel (located in NE1/4 of Section 25, Township 2 North, Range 67 West, 6th P.M.), as shown on attached Figure 1. An analysis was performed to determine the historical consumptive use ("HCU") and depletions to the South Platte River resulting from irrigation of the Sanstead Parcel based on share trace, review of deeds, and review of aerial photographs.

There are 82.5 outstanding shares of LBDC stock and 4,143 outstanding LMDC shares. The LBDC owns the 5/15/1863 right for 47.7 cfs and the 9/15/1873 right for 92.81 cfs. The LMDC owns the 3/10/1871 right for 10.00 cfs, as well as 43 of the 82.5 outstanding LBDC shares. The LMDC delivers its shares through the Lupton Bottom Ditch, Meadow Island No. 1 Ditch and Meadow Island No. 2 Ditch. Of the 4,143 LMDC outstanding shares, 3,573 LMDC shares are delivered through the Lupton Bottom Ditch. The 52 LMDC shares that are subject to this SWSP were delivered from the South Platte River for irrigation purposes through the Lupton Bottom Ditch.

The HCU analysis relied in majority on the same engineering assumptions used in the Aurora's Engineering Report completed by Deere and Ault Consultants, Inc. ("Deere and Ault") in support of case no. 2018CW3121 and the Central Colorado Water Conservancy District engineering assumptions used in pending case no. 2020CW3162. A study period of 1950 through 2012 was chosen, due to gravel-mining operations beginning at the site after 2012.

The 52 Sandstead LMDC shares were a part of 55 LMDC shares which were historically a part of a group of 618 LMDC shares owned by Welco Venture. Of the 618 LMDC shares, 512 LMDC shares were changed by South Adams County Water and Sanitation District ("SACWSD") in case no. 2001CW258 and 26 LMDC shares were changed by Weld County in case no. 2006CW274. The 55 LMDC shares, of which the Sandstead Shares were a part, were owned with other Welco Venture shares until 1987, when the 55 LMDC shares were sold to Dean and Linda Sandstead. In case no. 2018CW3121, Aurora quantified the use of the 55 LMDC Welco Venture shares from 1950 through 1982. The quantification performed in case no. 2018CW3121 for the 55 Welco Venture shares from 1950 through 1982 for the Sandstead Shares was used in this SWSP, and prorated the use to the 52 LMDC shares owned by L.G. Everist. For the period of 1983 through 1986, the average values from 1950 through 1982 were used. Starting in 1987, Summit developed a HCU model for the 55 LMDC shares used on the Sandstead parcel. The crop grown on the Sandstead parcel was predominantly alfalfa.

The HCU Analysis for the Sanstead Parcel was modeled using the following methods and assumptions:

- Modeling using the Integrated Decision Support Group Consumptive Use Model ("IDSCU") and the Modified Blaney-Criddle method with TR21 crop coefficients with ET adjustments available in the IDSCU. The ET adjustments used in the analysis were developed by Deere and Ault Consultants, Inc. in support of case no. 2018CW3121 for the Gilcrest area.
- Study period 1950 to 2012 for the Sandstead Parcel.
- For the HCU analysis diversion records for the Lupton Bottom Ditch were downloaded from Hydrobase. Daily diversions for the Lupton Bottom Ditch were adjusted to include only the diversion up to 150.57 cfs (the maximum decreed diversion rate of the Lupton Bottom Ditch and Lupton Meadow Ditch water rights).
- Temperature and precipitation data taken from the Fort Lupton 2SE station. Local weather data was available from Fort Lupton 2SE weather station from 1950 through 1975. For the period after 1976 through December 1993, the Longmont 2 ESE weather station was used. Starting in 1994, the NCWCD Gilcrest station climate data was used until the end of the study period.
- Soil Conservation Service methodology for calculation of effective precipitation. The soils on the farm include predominantly Aquolls and Aquents and Nunn Clay Loam. Available water content of the soils as reported by National Resource Conservation Service ("NRCS") Web Soil Survey averages 1.43 inches per foot of soil for the Sandstead Parcel. The model allows the soil moisture reservoir to be depleted below the point where crop transpiration would be reduced due to water stress and does not account for the resulting reduction in crop transpiration. This results in an overestimation of the historical consumptive use.
- Assumed ditch loss of 35 percent.
- The irrigated acres were determined from the 1949, 1970, 1978, 1988, 1991, 2002, and 2005 aerial photos obtained from the USGS Earth Explorer.
- The modeled crop on the Sandstead Parcel was 100 percent alfalfa for the period of 1987 through 2012 (prior to 1987 the Applicant relied on the analysis from the engineering report prepared in support in case no. 2018CW3121). The attached Table 4 summarizes the irrigated area and crop mix for the Sandstead Parcel.
- According to the information provided a 60 percent irrigation efficiency for border and furrow irrigated crops was selected. The selected efficiency was based on review of aerial photos of the farm, field slopes, layout of the irrigated fields, the type of irrigation practice and soil type.
- The return flow was estimated to be 50 percent surface and 50 percent subsurface. For the Sandstead Parcel surface runoff and deep percolation from irrigation accrued to Little Dry

Creek. Return flows were analyzed using AWAS software and the Glover methodology according to the parameters summarized in Table J.

Table J - Summary of Glover Parameters

Farm	Distance from Farm to River (ft)	Distance from boundary to River (ft)	Transmissivity (gpd/ft)	Specific Yield
Sandstead Parcel	490	8,907	129,615	0.2

Table K – 52 Lupton Meadow Ditch Shares HCU Results (Sandstead Parcel)

Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Farm Headgate Delivery	0	0	0.3	4.6	14.1	18.6	23.3	20.1	12.4	5.5	0.2	0	99.0
On Farm Depletion of Surface Water	0	0	0.1	2.2	7.1	10.5	14.1	12.3	7.4	3.0	0.1	0	56.8
Surface RF	0	0	0.1	1.2	3.5	4.0	4.6	3.9	2.5	1.2	0	0	21.1
Ground Water RF	0	0	0.1	1.2	3.5	4.0	4.6	3.9	2.5	1.2	0	0	21.1
Lagged Ground Water Return Flow	0.2	0.2	0.2	1.0	2.8	3.5	4.1	3.8	2.7	1.6	0.6	0.3	21.1
Total Return Flow	0.2	0.2	0.3	2.2	6.3	7.5	8.7	7.7	5.2	2.9	0.6	0.3	42.2
Average Net Depletion	-0.2	-0.2	-0.1	2.4	7.8	11.0	14.5	12.4	7.2	2.6	-0.6	-0.3	56.8

For the months of April through October the daily return flow obligation will be determined by multiplying the applicable monthly return flow factor by the total daily deliveries associated with the subject shares. For the months of November through March, the daily return flow obligation will be determined by multiplying the applicable monthly return flow factor by the previous year's (April through October) total deliveries associated with the subject shares, and then divided by the number of days in the month. The depletion factors are summaries in the Depletion Factor Table below:

Depletion Factor Table

Description	Multiplied by Monthly Delivery							Multiplied by Total Apr-Oct Deliveries					Tot
	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	
Delivery (acre-feet)	4.6	14.1	18.6	23.3	20.1	12.4	5.5	0.0	0.0	0.0	0.0	0.0	98.6
Depletion Factor	0.515	0.553	0.593	0.624	0.619	0.578	0.479	-0.004	-0.003	-0.002	-0.002	0.000	-
Resulting Depletion	2.4	7.8	11.0	14.5	12.4	7.2	2.6	-0.4	-0.3	-0.2	-0.2	0.0	56.8

The Applicant must replace all return flows resulting from operations under this SWSP, and prior SWSPs, including those return flows that are owed to the stream after the expiration date of this SWSP. Until such time as all return flows are replaced, or a decree is entered that proposes to replace such return flows, the Applicant must maintain a valid SWSP.

The Lupton Meadow shares will be delivered back to the South Platte River at either the augmentation station located just north of WCR 14.5 (WDID 0202917) or the East Lateral Ditch into Little Dry Creek (WDID 0202307). The East Lateral Ditch into Little Dry Creek augmentation station is preferred for all releases, and if the WCR 14.5 augmentation station is used, the Applicant is required to first contact the District 2 Water Commissioner. Due to the distance from the augmentation station to the river, the Water Commissioner may assess transit losses on the amount released from the WCR 14.5 augmentation station. The Applicant proposes that deliveries will be limited to April through October.

Excess credits generated at the Saint Vrain Creek from Rural Ditch shares may be available for use at the Fort Lupton and Ragsdale Gravel Pit sites. Any credits from the Saint Vrain Creek permit areas to be used at the Fort Lupton and Ragsdale Gravel Pit sites will only occur during periods without an intervening call (the potential calling right is Western Mutual Ditch) and will account for transit losses along approximately 11 river miles between the Saint Vrain Creek sites and the Saint Vrain Creek confluence with the South Platte River. Transit losses will be 0.50 percent per mile summer transit loss and 0.25 percent per mile winter transit loss. The transit loss percentages are subject to change depending upon current conditions. If transit losses change they will be communicated by the Division Engineer via email to the Division One Call List. **The applicant shall coordinate with Central Colorado Water Conservancy District as the operator of the Rural Ditch augmentation station and obtain prior permission from the District 2 and 5 Water Commissioners when making releases of the Rural Ditch water to cover depletions at the Fort Lupton site. Credit will not be given to any releases not measured and recorded to the satisfaction of the District 2 and 5 Water Commissioners or Division Engineer or if the release amount is inconsistent with Central's operation of the augmentation station.**

As part of the SWSP you have requested approval to allow L.G. Everist to use its changed LMDC water for uses associated with the mining operation at Fort Lupton Sand and Gravel Pit. We have reviewed your request and determined that since the LMDC water dedicated to this SWSP was changed as part of the combined plan, LMDC water can potentially be used at Fort Lupton Sand and Gravel Pit for uses associated with the mining operations at this site, provided return flow obligation for the delivery of the LMDC water are maintained by the combined plan, and the use of LMDC water for augmentation and direct use for mining operations uses is properly accounted for. In addition L.G. Everist needs to demonstrate that sufficient replacement water sources are available to replace depletions at this site. The approval to use the LMDC water for mining operations at Fort Lupton Sand and Gravel Pit is for the 2022 and 2023 irrigation season. Diversion of the LMDC water for mining operation uses at the Fort Lupton Sand and Gravel Pit is limited to the historical average diversions listed in Table 6 below and return flows must be calculated using the return flow factors listed in the Depletion Factor Table above.

The maximum monthly volumetric farm headgate diversion limits for the shares that are subject to this SWSP amendment are shown in Table 6 below. **For the period of the SWSP, the Applicant's share delivery of LMDC water shall be limited to the historical monthly average and annual average farm headgate deliveries, as shown in Table L.** These amounts represent the historical average farm headgate diversions.

If L.G. Everist reaches any of the volumetric limits, all of the water in excess of the volumetric limits will be returned to the river through the WCR 14.5 augmentation station without any credit on the excess water being available to L.G. Everist.

Table L - Monthly and Annual Volumetric Limits

Month	Apr	May	Jun	Jul	Aug	Sep	Oct	Total
Monthly Volumetric Farm Headgate Diversion limits (acre-feet)	4.6	14.1	18.6	23.3	20.1	12.4	5.5	98.6

L.G. Everist Laramie Fox Hills Wells

During times of a winter call on the reach of the South Platte (i.e., the Milton Reservoir storage right at the Platte Valley Canal Headgate), replacement supplies may be from L.G. Everist Laramie Fox Hills wells. The nontributary Laramie-Fox Hills aquifer water will be withdrawn by existing wells pursuant to permit nos. 77371-F, 77372-F, 77373-F, and 77374-F. The wells are currently permitted for industrial, commercial and augmentation use and are allowed a combined average annual withdrawal of 241.66 acre-feet and a pumping rate of 150 gpm. The wells are further described in the following Table P. The Applicant's accounting includes the 2% relinquishment requirement for the nontributary Laramie-Fox Hills water.

Table P - L.G. Everist Laramie Fox Hills Well Summary

Well Field WDID	0204101	0204101	0204101	0204101
Well Field Name	EVERIST LFH WL FLD	EVERIST LFH WL FLD	EVERIST LFH WL FLD	EVERIST LFH WL FLD
Well WDID	0210211	0210212	0210213	0210375
Well Name	EVERIST LFH WELL 77371-F	EVERIST LFH WELL 77372-F	EVERIST LFH WELL 77373-F	EVERIST LFH WELL 77374-F
Relevant Well Permit	77371-F	77372-F	77373-F	77374-F
Well Location	SW, NE SEC 30, 2N, 66W	NW, NW SEC 24, 1S 65W	NW, NW SEC 30, 2N, 66W	NE, NW SEC 31, 2N, 66W
Aquifer	LAR/FOX HILLS	LAR/FOX HILLS	LAR/FOX HILLS	LAR/FOX HILLS
Allowable AF Amount	241.66 ACRE FEET COMBINED			

Cannon Land Company & Cannon Water LLP Lease

L.G. Everist has in the past reached an agreement for 60 acre-feet for September 30, 2021 through March 31, 2022 non-irrigation season of leased water with Cannon Land Company and Cannon Water LLP ("Cannon") to provide replacement water associated with Cannon Water Rights to Cannon Pipeline, for L. G. Everist's out-of-priority depletions from mining operations for the gravel pits included in this SWSP. In the event that L. G. Everist seeks to use water from Cannon in 2024 or 2025 a new lease agreement must be provided to this office within 60 days of water being used under the lease.

The Cannon Pipeline is an unlined channel that flows perennially and is tributary to the South Platte River. Cannon's historical consumptive use from the Cannon Water Rights changed in case no. 2003CW84 can be delivered to the South Platte River at several places. Deliveries could be allocated to replace depletions on both St. Vrain Creek and the South Platte River, with transit

losses assessed for replacing St. Vrain Creek depletions (0. 5 percent per mile during April through October and 0.25 percent per mile during November through March will be applied to approximately 12.5 stream miles from the Cannon Pipeline delivery point to the confluence of St. Vrain Creek and the South Platte River).

Leased Water from Aurora and Central

In prior SWSP approvals, L. G. Everist has obtained fully reusable leased water from Aurora and Central. L.G. Everist does not currently have an agreement for any reusable leased water from Aurora or Central during the period of this SWSP but would like to have the option to obtain leased water from these parties.

Water leased from Aurora would be available on the South Platte River, typically at the Robert W. Hite outfall to the South Platte River. Transit losses of 0. 5 percent per mile during April through October and 0.25 percent per mile during November through March will be applied to the leased water from the Robert W. Hite outfall or, if applicable, another delivery location.

Water leased from Central would be available on St. Vrain Creek. The location of delivery of the leased water has varied for Central. Transit losses of 0.5 percent per mile during April through October and 0.25 percent per mile during November through March will be applied to the leased water from appropriate delivery location.

Leased Water From Firestone

L. G. Everist has obtained fully reusable leased water from the City of Firestone. A copy of this lease agreement was provided with the SWSP request and is attached to this letter. The water leased includes up to 125 acre-feet of augmentation water provided per year. The augmentation water will be delivered at the St. Vrain Sanitation District discharge point on the St. Vrain River.

A monthly breakdown of the stream depletions from the mining operations as well as the replacements are shown in the attached Tables 3 through 12.

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 an effective date of January 1, 2024 and shall be valid through December 31, 2025 unless otherwise revoked or modified. If this plan will not be made absolute by a water court action by the plan's expiration date, a renewal request must be submitted to this office with the statutory fee (currently $257/pit) for each gravel pit **no later than November 1, 2025**. If a renewal request is received after the expiration date of this plan, it may be considered a request for a new SWSP and the $1,593 filing fee will apply.
2. New well permits must be obtained for the alluvial wells (permit nos. 16380-RR, 9524-F, 16382-R, and 5862-FR) prior to pumping water for any mining operations at the Ragsdale Gravel Pit site proposed in this SWSP. The provisions of Colorado Revised Statute 37-90-137(2) prohibits the issuance of a permit for a well to be located within 600 feet of any existing well, unless the State Engineer finds that circumstances so warrant after a hearing held in accordance with the procedural rules in 2CCR402-5. This hearing may be waived if you are able to obtain statements from the owners of all wells within 600 feet, verifying that they have no objection to your use of the proposed well. Should a new well permit be denied for

reasons of 600 foot spacing, or any other legitimate reason, approval of this substitute supply plan may be canceled.

3. Well permits were obtained for the current use and exposed pond surface area at the Carbon Valley Pit, Firestone, Fort Lupton Sand and Gravel, and Ragsdale Pit in accordance with §37-90-137(2) and (11), C.R.S., permit nos. 70326-F, 84593-F, 83471-F, and 85586-F respectively. **The Applicant should file a Well Abandonment Report (form GWS-09) for permit no. 78127-F issued for the Rinn Valley Resource site (previously included in this combined plan) since there are no more lagged depletions at the site that need to be replaced.**

4. The total area of pond surface exposed for each of the pits shall not exceed those values listed in Table A of this approval. Should the total surface area exposed exceed those amounts, an amendment request shall be promptly filed with this office.

5. The total amount of groundwater to be appropriated from each of the pits shall not exceed the values listed in Table D of this approval.

6. Approval of this plan is for the purposes as stated herein. Any additional uses of water must first be approved by this office. Any future additional historical consumptive use credit given (e.g., agricultural water transfer) for this site must consider all previous credits given.

7. The Applicant must replace all out-of-priority depletions resulting from operation under this SWSP, including those lagged depletions that occur to the stream after the expiration date of this SWSP.

8. All pumping for dust control shall be measured in a manner acceptable to the division engineer.

9. The replacement water, which 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 location.

10. The Applicant has proposed to use for augmentation, water available from any other source legally available for augmentation and which can be provided in the amount, at the time, and at the location required to replace out of priority depletions from the gravel pit sites included in this SWSP. Additional sources of replacement water in this SWSP may only be used if the Applicant complies with the attached Division One Administration Protocol “Use of Replacement Sources Not Specifically Identified in an SWSP or Augmentation Plan”.

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 on the accounting forms submitted to the division engineer and the water commissioner.

12. Conveyance loss for delivery of augmentation water to the South Platte River, Saint Vrain Creek and the Cache La Poudre River is subject to assessment and modification as determined by the division engineer.

13. 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” Saint Vrain Creek and the South Platte river or their tributaries. Applicant shall not receive credit for replacement of depletions to Saint Vrain Creek and the

South Platte 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 Sant Vrasin Creek and the South Platte River below such diversion structure.

14. 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. **NOTE:** Monthly accounting, even during the winter non-irrigation season, is required.
15. If reclamation of the mines at the gravel pit sites included in this SWSP produce a permanent water surface exposing groundwater to evaporation, an application for a plan for augmentation must be filed with the Division 1 Water Court at least three years prior to the completion of mining to include, but not be limited to, long-term evaporation losses. If a lined pond results after reclamation, replacement of lagged depletions shall continue until there is no longer an effect on stream flow.
16. Dewatering at the Carbon Valley Pit, Firestone Pit, Ft. Lupton Sand and Gravel, and Ragsdale Gravel Pit will produce delayed depletions to the stream system. Once dewatering at the sites cease, the delayed depletions must be addressed. A plan that specifies how the post pumping dewatering depletions (including refilling of the pits) will be replaced, in time, place and amount along with the evaporation from groundwater exposed at the sites after the dewatering stops was presented in the SWSP application.
17. The monthly volume of water pumped for dewatering operations must be recorded through a totalizing flow meter and shown on the submitted accounting sheets.
18. The Applicant shall follow the accounting protocol as referenced in the attached document for the operation of this SWSP.
19. Water shall not be impounded in any lined reservoirs except pursuant to lawful diversions allowed by statute or decree. At all other times, all inflow of water into the reservoirs from any source, including precipitation and groundwater inflows, shall be removed by the applicant. The water may be removed from within the lined area and returned to the stream system through surface flow or groundwater recharge without need for replacement, so long as the operator does not put the water to beneficial use.
20. 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 occurred or will occur as a result of the operation of this SWSP. Should this SWSP expire without renewal or be revoked prior to adjudication of a permanent plan for augmentation, all use of water under this SWSP must cease immediately.
21. In accordance with amendments to §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.

22. 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 plan. This decision shall not bind the state engineer to act in a similar manner in any other applications involving other plans, or in any proposed renewal of this plan, 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.

If you have any questions concerning this approval, please contact Ioana Comaniciu in Denver at (303) 866-3581 or Aliyah Santistevan in Greeley at (970) 352-8712.

Sincerely,

for Joanna Williams, P.E.
Chief of Water Supply

Attachments: Tables 3 through 12, Firestone Lease
Figures 1 and 2, and Figure 1 from engineering report for case no. 19CW3236
Accounting Protocol
Use of Replacement Sources Not Specifically Identified in an SWSP or Augmentation Plan

Ec: Aliyah Santistevan, Assistant Division Engineer, Aliyah.Santistevan@state.co.us
Michael Hein, Assistant Division Engineer, Michael. Hein@state.co.us
Alec Henandez, Water Commissioner, Water District 2, Alec.Hernandez@state.co.us
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Division of Reclamation Mining and Safety

JMW/idc-LG Everist Combined SWSP (24-25).docx

Table 3
Carbon Valley Resource (DMG Permit No. M-01-017)
January 2024 to December 2025 SWSP Accounting
(all values in acre-feet, unless otherwise noted)

Person Responsible for this plan:
Lynn Mayer Shults
303.286.2247

DEPLETIONS

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
	MINING DEPLETIONS										DEWATERING		TOTAL DEPLETIONS
Month	Aggregate Production				Evaporation			Dust Control	Total Depletions				
	Total Excavated Material (tons)	Material Washed (tons)	Material Not Washed (tons)	Water Consumed	Exposed Area (ac)	Net Evap. Rate (ft)	Total Evap.		Not Lagged	Lagged	Not Lagged	Lagged	
Jan-24	10,975		10,975	-0.16	2.71	-0.08	-0.21	-0.02	-0.37	-0.51	45.0	-33.1	-33.6
Feb-24	11,339		11,339	-0.17	2.71	-0.09	-0.26	-0.02	-0.42	-0.50	45.0	-35.8	-36.3
Mar-24	14,913		14,913	-0.22	2.71	-0.12	-0.32	-0.02	-0.54	-0.50	45.0	-37.4	-37.9
Apr-24	13,945		13,945	-0.21	2.71	-0.20	-0.54	-0.02	-0.75	-0.53	45.0	-38.5	-39.1
May-24	18,896		18,896	-0.28	2.71	-0.26	-0.70	-0.02	-0.98	-0.59	50.0	-39.7	-40.3
Jun-24	22,965		22,965	-0.34	2.71	-0.38	-1.04	-0.02	-1.38	-0.68	50.0	-41.4	-42.1
Jul-24	21,048		21,048	-0.31	2.71	-0.44	-1.18	-0.02	-1.49	-0.82	55.0	-43.0	-43.8
Aug-24	17,834		17,834	-0.26	2.71	-0.38	-1.03	-0.02	-1.29	-0.92	55.0	-45.0	-45.9
Sep-24	21,913		21,913	-0.32	2.71	-0.26	-0.71	-0.02	-1.04	-0.95	45.0	-45.9	-46.9
Oct-24	15,620		15,620	-0.23	2.71	-0.18	-0.50	-0.02	-0.73	-0.92	40.0	-44.9	-45.8
Nov-24	17,750		17,750	-0.26	2.71	-0.09	-0.25	-0.02	-0.51	-0.85	35.0	-43.3	-44.2
Dec-24	12,802		12,802	-0.19	2.71	-0.07	-0.20	-0.02	-0.39	-0.78	35.0	-41.7	-42.5
TOTAL 2024	200,000	0	200,000	-2.94		-2.56	-6.94	-0.24	-9.88	-8.55	545.0	-489.6	-498.4
Jan-25	1,000		1,000	-0.01	2.00	-0.08	-0.15	-0.01	-0.17	-0.69	30.0	-40.3	-41.0
Feb-25	1,000		1,000	-0.01	2.00	-0.09	-0.19	-0.01	-0.20	-0.61	35.0	-38.8	-39.4
Mar-25				0.00	2.00	-0.12	-0.24		-0.24	-0.55	30.0	-38.2	-38.7
Apr-25				0.00	2.00	-0.20	-0.40		-0.40	-0.52	25.0	-36.6	-37.1
May-25				0.00	2.00	-0.26	-0.52		-0.52	-0.52	20.0	-34.3	-34.8
Jun-25				0.00	2.00	-0.38	-0.77		-0.77	-0.55	15.0	-31.6	-32.1
Jul-25				0.00		-0.44			0.00	-0.55	10.0	-28.6	-29.1
Aug-25				0.00		-0.38			0.00	-0.44	0.0	-25.0	-25.4
Sep-25				0.00		-0.26			0.00	-0.36	0.0	-20.8	-21.1
Oct-25				0.00		-0.18			0.00	-0.30	0.0	-17.6	-17.9
Nov-25				0.00		-0.09			0.00	-0.26	0.0	-15.2	-15.4
Dec-25				0.00		-0.07			0.00	-0.23	0.0	-13.1	-13.3
TOTAL 2025	2,000	0	2,000	-0.03		-2.56	-2.26	-0.18	-2.29	-5.58	165.0	-339.9	-345.5

Notes:
1. Total excavated material of 200000 tons in 2024 and 2000 tons in 2025, distributed based on historical operations.
2. and 3. Projected tons of material washed and not washed based on historical operations at site. Actual recorded values to be used in SWSP accounting.
4. Equal to 4% of washed material (2) + 2% of material not washed (3).
5. Exposed surface area outside of lined areas that are not covered by ice. Accounting values based on measurements of actual ice cover.
6. Net evaporation based on gross evaporation (NOAA NWS-33) less 70% of average precipitation for NOAA Longmont 2ESE weather station (see Table 12).
7. Equal to (5) * (6).
8. 0.24 ac-ft in 2024 and 0.18 ac-ft in 2025. Distributed based on historical operations and included as part of dewatering (11).
9. Equal to (4) + (7).
10. Equal to past and current mining depletions (9), lagged back to St. Vrain Creek using AWAS program with following aquifer parameters: X=2000 ft; W=4173 ft; T=50000 gpd/ft, and S=0.2.
11. Based on pumping over previous year.
12. Equal to past and current dewatering pumping (11), lagged back to St. Vrain Creek using AWAS program with following aquifer parameters: X=2000 ft; W=4173 ft; T=50000 gpd/ft, and S=0.2.
13. Equal to (10) + (11) + (12) + (8), since dust control comes from dewatering pumping that does not return to the river.
Negative values (-) represent net depletions to river system. Positive values (+) represent net accretions to river system.

Table 4
Firestone Gravel Resource (DMG Permit No. M-96-052)
January 2024 to December 2025 SWSP Accounting
(all values in acre-feet, unless otherwise noted)

Person Responsible for this plan:
Lynn Mayer Shults
303.286.2247

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)
	DEPLETIONS															
	MINING DEPLETIONS													DEWATERING		TOTAL DEPLETIONS
Month	Aggregate Production				Evaporation				Dust Control	Concrete		Total Depletions				
	Total Excavated Material (tons)	Material Washed (tons)	Material Not Washed (tons)	Water Consumed	Exposed Area (ac)	Net Evap. Rate (ft)	Subirrigation Credit (ac-ft)	Total Evap.		Total Production (cu. yds.)	Water Consumed	Not Lagged	Lagged	Not Lagged	Lagged	
Jan-24	73,848	65,848	8,000	-2.06	20.90	-0.08		-1.61	-0.09	5,373	-0.82	-3.66	-4.83	120.0	-119.1	-124.9
Feb-24	76,033	68,033	8,000	-2.12	20.90	-0.09		-1.97	-0.09	3,783	-0.58	-4.09	-4.31	125.0	-120.5	-125.5
Mar-24	97,679	89,479	8,200	-2.75	20.90	-0.12		-2.46	-0.09	4,461	-0.68	-5.22	-4.35	140.0	-124.8	-130.0
Apr-24	92,070	83,670	8,400	-2.59	20.90	-0.20	0.03	-4.15	-0.09	4,686	-0.72	-6.73	-4.98	140.0	-132.1	-137.9
May-24	122,477	113,377	9,100	-3.47	20.90	-0.26	0.08	-5.30	-0.09	4,349	-0.67	-8.77	-6.12	100.0	-130.4	-137.2
Jun-24	147,088	137,788	9,300	-4.19	20.90	-0.38	0.12	-7.90	-0.09	5,824	-0.89	-12.09	-7.89	100.0	-116.0	-124.9
Jul-24	135,687	126,287	9,400	-3.86	20.90	-0.44	0.14	-8.97	-0.09	5,966	-0.92	-12.83	-10.04	100.0	-107.9	-118.9
Aug-24	115,601	107,001	8,600	-3.28	20.90	-0.38	0.12	-7.80	-0.09	4,042	-0.62	-11.07	-11.18	100.0	-103.9	-115.8
Sep-24	140,079	131,479	8,600	-4.00	20.90	-0.26	0.08	-5.42	-0.09	4,462	-0.68	-9.41	-10.93	100.0	-101.9	-113.6
Oct-24	101,723	93,723	8,000	-2.88	20.90	-0.18	0.03	-3.83	-0.09	6,442	-0.99	-6.71	-9.82	95.0	-100.2	-111.1
Nov-24	113,703	106,503	7,200	-3.24	20.90	-0.09		-1.95	-0.09	5,323	-0.82	-5.19	-8.10	95.0	-97.7	-106.7
Dec-24	84,012	76,812	7,200	-2.37	20.09	-0.07		-1.49	-0.09	5,289	-0.81	-3.85	-6.47	95.0	-96.3	-103.7
TOTAL 2024	1,300,000	1,200,000	100,000	-36.79		-2.56	0.60	-52.84	-1.07	60000.0	-9.21	-89.63	-89.02	1310.0	-1351.0	-1450.3
Jan-25	75,848	65,848	10,000	-2.09	20.01	-0.08		-1.54	-0.09	5,373	-0.82	-3.62	-5.14	90.0	-93.2	-99.3
Feb-25	83,033	68,033	15,000	-2.22	20.01	-0.09		-1.89	-0.09	3,783	-0.58	-4.11	-4.45	110.0	-94.6	-99.7
Mar-25	107,479	89,479	18,000	-2.90	20.01	-0.12		-2.36	-0.09	4,461	-0.68	-5.26	-4.43	135.0	-105.5	-110.7
Apr-25	103,670	83,670	20,000	-2.76	20.01	-0.20	0.03	-3.97	-0.09	4,686	-0.72	-6.73	-5.03	135.0	-119.8	-125.6
May-25	135,377	113,377	22,000	-3.66	20.01	-0.26	0.08	-5.07	-0.09	4,349	-0.67	-8.73	-6.14	135.0	-127.5	-134.4
Jun-25	167,788	137,788	30,000	-4.50	20.01	-0.38	0.12	-7.56	-0.09	5,824	-0.89	-12.05	-7.88	130.0	-130.6	-139.5
Jul-25	159,287	126,287	33,000	-4.20	20.01	-0.44	0.14	-8.58	-0.09	5,966	-0.92	-12.79	-10.01	130.0	-130.4	-141.4
Aug-25	137,001	107,001	30,000	-3.59	20.01	-0.38	0.12	-7.46	-0.09	4,042	-0.62	-11.05	-11.15	130.0	-130.2	-142.1
Sep-25	156,479	131,479	25,000	-4.24	20.01	-0.26	0.08	-5.18	-0.09	4,462	-0.68	-9.42	-10.91	140.0	-131.5	-143.2
Oct-25	113,723	93,723	20,000	-3.05	20.01	-0.18	0.03	-3.67	-0.09	6,442	-0.99	-6.72	-9.81	145.0	-136.3	-147.2
Nov-25	121,503	106,503	15,000	-3.36	20.01	-0.09		-1.87	-0.09	5,323	-0.82	-5.22	-8.10	145.0	-140.6	-149.6
Dec-25	88,812	76,812	12,000	-2.44	20.01	-0.07		-1.48	-0.09	5,289	-0.81	-3.92	-6.49	125.0	-139.9	-147.3
TOTAL 2025	1,450,000	1,200,000	250,000	-39.00		-2.56	0.60	-50.63	-1.15	58,000	-9.21	-89.62	-89.54	1550.0	-1480.2	-1580.0

Notes:
1. Total excavated material of 1300000 tons in 2024 and 1450000 tons in 2025, distributed based on historical operations.
2. and 3. Projected tons of material washed and not washed based on historical operations at site. Actual recorded values to be used in SWSP accounting.
4. Equal to 4% of washed material (2) + 2% of material not washed (3).
5. Exposed surface area outside of lined areas that are not covered by ice. Accounting values based on measurements of actual ice cover.
6. Net evaporation based on gross evaporation (NOAA NWS-33) less 70% of average precipitation for from previous analysis (see Table 12).
7. Historical subirrigation credit at site from previous historical subirrigation credit analysis.
8. Equal to (5) * (6) + (7).
9. 1.07 ac-ft in 2024 and 1.15 ac-ft in 2025. Distributed based on historical operations and included as part of dewatering (16).
10. Total concrete production of 60000 cubic yards in 2024 and 58000 cubic yards in 2025, distributed based on historical operations.
11. Equal to (10) * 50 gallons per cubic yard / 325851, and included as part of dewatering (14).
12. Equal to (4) + (8). Dust control (9) and water used for concrete production (11) comes from pumping for dewatering (14).
13. Equal to past and current mining depletions (12), lagged back to St. Vrain Creek using AWAS program with following aquifer parameters: X=2210 ft; W=2262 ft; T=72300 gpd/ft, and S=0.2.
14. Based on pumping over previous year.
15. Equal to past and current dewatering pumping (14), lagged back to St. Vrain Creek using AWAS program with following aquifer parameters: X=2210 ft; W=2262 ft; T=72300 gpd/ft, and S=0.2.
16. Equal to (13) + (15) + (9) + (11), since dust control and water for concrete production comes from dewatering pumping that does not return to the river.
Negative values (-) represent net depletions to river system. Positive values (+) represent net accretions to river system.

Table 5
L.G. Everist St. Vrain Creek Mining Permit Areas Summary
January 2024 to December 2025 SWSP Accounting
(all values in acre-feet, unless otherwise noted)

Person Responsible for this plan:
Lynn Mayer Shults
303.286.2247

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
	TOTAL DEPLETIONS					REPLACEMENTS						RIVER BALANCE			
Month	Carbon Valley	Firestone	Total	Percent of Month with Call	Out-of-Priority Net Depletion	Dewatering Credits Carbon Valley	Dewatering Credit Firestone	Rural Ditch Depletions	Excess Ft Lupton Credits	Ft Lupton Supply Transit Losses	Total Ft Lupton Credits	Preliminary Balance	Credits used to meet South Platte Depletions	Leased Water	Balance
Jan-24	-33.59	-124.87	-158.46	0%	0.00	45.00	120.00	-4.01				165.00	0.00	0.00	165.00
Feb-24	-36.27	-125.52	-161.79	0%	0.00	45.00	125.00	-3.75				170.00	0.00	0.00	170.00
Mar-24	-37.90	-129.95	-167.85	26%	-43.32	45.00	140.00	-3.47				140.79	0.00	0.00	140.79
Apr-24	-39.06	-137.92	-176.97	40%	-70.79	45.00	140.00	-1.90				113.45	0.00	0.00	113.45
May-24	-40.31	-137.25	-177.55	71%	-126.00	50.00	100.00	17.40				41.39	0.00	0.00	41.39
Jun-24	-42.11	-124.90	-167.01	83%	-139.18	50.00	100.00	29.98				40.80	0.00	0.00	40.80
Jul-24	-43.84	-118.93	-162.78	100%	-162.78	55.00	100.00	44.49				36.71	0.00	0.00	36.71
Aug-24	-45.91	-115.78	-161.69	100%	-161.69	55.00	100.00	28.79				22.10	0.00	0.00	22.10
Sep-24	-46.86	-113.61	-160.48	100%	-160.48	45.00	100.00	11.49				-3.98	0.00	12.00	8.02
Oct-24	-45.82	-111.12	-156.94	100%	-156.94	40.00	95.00	-0.40				-22.35	0.00	23.00	0.65
Nov-24	-44.21	-106.72	-150.93	100%	-150.93	35.00	95.00	-6.33				-27.26	0.00	27.00	-0.26
Dec-24	-42.48	-103.70	-146.18	100%	-146.18	35.00	95.00	-6.13				-22.31	0.00	27.00	4.69
TOTAL 2024	-498.36	-1450.28	-1948.64		-1318.29	545.00	1310.00	106.15		0.00		654.34	0.00	89.00	743.34
Jan-25	-40.98	-99.29	-140.27	100%	-140.27	30.00	90.00	-5.74	26.73	-1.00	25.73	-0.28	0.00	0.00	-0.28
Feb-25	-39.44	-99.73	-139.17	100%	-139.17	35.00	110.00	-5.34				0.49	0.49	0.00	0.00
Mar-25	-38.72	-110.68	-149.40	100%	-149.40	30.00	135.00	-4.95	2.52	-0.09	2.43	13.08	10.65	0.00	2.43
Apr-25	-37.08	-125.63	-162.71	100%	-162.71	25.00	135.00	-1.90	3.23	-0.24	2.99	-1.62	0.00	0.50	-1.12
May-25	-34.80	-134.41	-169.21	100%	-169.21	20.00	135.00	17.40	25.02	-1.88	23.14	26.33	3.19	0.00	23.14
Jun-25	-32.13	-139.45	-171.58	100%	-171.58	15.00	130.00	29.98	35.29	-2.64	32.65	36.04	7.65	4.25	32.65
Jul-25	-29.10	-141.44	-170.54	100%	-170.54	10.00	130.00	44.49	28.91	-2.17	26.74	40.68	24.69	10.75	26.74
Aug-25	-25.40	-142.07	-167.47	100%	-167.47		130.00	28.79	16.71	-1.25	15.45	6.78	0.00	0.00	6.78
Sep-25	-21.13	-143.22	-164.35	100%	-164.35		140.00	11.49	23.84	-1.79	22.05	9.19	0.00	0.00	9.19
Oct-25	-17.94	-147.18	-165.12	100%	-165.12		145.00	-0.40	13.86	-1.04	12.82	-7.70	0.00	9.00	1.30
Nov-25	-15.44	-149.58	-165.02	100%	-165.02		145.00	-6.33	0.75	-0.03	0.72	-25.63	0.00	22.00	-3.63
Dec-25	-13.34	-147.33	-160.67	100%	-160.67		125.00	-6.13	1.04	-0.04	1.01	-40.80	0.00	37.50	-3.30
TOTAL 2025	-345.50	-1580.02	-1925.52		-1925.52	165.00	1550.00	101.36	177.89	-12.17	165.72	56.57	46.67	84.00	93.90

Notes:
1. See Table 3, Column (13).
2. See Table 4, Column (16).
3. Equal to (1) + (2).
4. Percent of month with call placed downstream of sites based on Water Division 1 records. Accounting values based on actual recorded calls.
5. Equal to [(3) * (4)] < 0.
6. Dewatering Credits from Carbon Valley pumping
7. Dewatering Credits from Fireston pumping.
8. Historical lagged depletions associated with dry up of land under Rural Ditch associated with recorded deliveries through augmentation station of up to 1.9 share(s) in 2024 and up to 1.9 share(s) in 2025 (see Table 9). Augmentation station deliveries accounted only during periods of downstream call. Net depletions are multiplied by portion of month with call (4).
9. Excess Ft. Lupton credits (see Table 8, Column 16). Note use of Fort Lupton credits limited to periods without intervening call; e.g., Hewes Cook call on 7 days (25%) of the month means 15 ac-ft excess credits available out of 20 ac-ft in river at Fort Lupton prior to transit loss.
10. Based on (9) and transit loss over 15 miles to St. Vrain Creek confluence at summer (Apr - Oct) / winter (Nov-Mar) loss rate of 0.50% / 0.25% per mile.
11. Equal to (9) + (10).
12. Equal to [(3) * (4)] > 0 + (6) + (7) + (8) + (11). Negative values (-) represent net depletions to river system. Positive values (+) represent net accretions to river system.
13. See Table 8, Column -12.
14. Credits for replacement from lease with City of Firestone, Cannon, City of Aurora, or Central Colorado Water Conservancy District, after transit losses.
15. Equal to (12) - (13) + (14).

Table 6
Ft Lupton Sand and Gravel (DMG Permit No. M-99-120)
January 2024 to December 2025 SWSP Accounting
(all values in acre-feet, unless otherwise noted)

Person Responsible for this plan:
Lynn Mayer Shults
303.286.2247

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
	DEPLETIONS												
	MINING DEPLETIONS										DEWATERING		TOTAL DEPLETIONS
Month	Aggregate Production				Evaporation			Dust Control	Total Depletions				
	Total Excavated Material (tons)	Material Washed (tons)	Material Not Washed (tons)	Water Consumed	Exposed Area (ac)	Net Evap. Rate (ft)	Total Evap.		Not Lagged	Lagged	Not Lagged	Lagged	
Jan-24	57,668	57,668		-1.70	30.08	-0.08	-2.51	-0.06	-4.26	-6.18	65.0	-39.9	-46.0
Feb-24	46,720	46,720		-1.38	30.08	-0.11	-3.25	-0.06	-4.68	-6.02	65.0	-51.2	-57.2
Mar-24	69,247	69,247		-2.04	30.08	-0.15	-4.62	-0.06	-6.72	-6.62	65.0	-54.6	-61.2
Apr-24	81,926	81,926		-2.41	30.08	-0.26	-7.75	-0.06	-10.22	-8.22	65.0	-56.3	-64.5
May-24	78,068	78,068		-2.30	30.08	-0.31	-9.29	-0.06	-11.65	-9.74	60.0	-55.7	-65.5
Jun-24	92,726	92,726		-2.73	30.08	-0.44	-13.26	-0.06	-16.05	-11.90	75.0	-60.1	-72.0
Jul-24	91,072	91,072		-2.68	30.08	-0.48	-14.54	-0.06	-17.28	-13.79	75.0	-64.4	-78.2
Aug-24	92,302	92,302		-2.72	30.08	-0.43	-13.07	-0.06	-15.85	-14.20	65.0	-62.7	-76.9
Sep-24	88,534	88,534		-2.61	30.08	-0.30	-9.00	-0.06	-11.67	-12.84	50.0	-56.0	-68.8
Oct-24	76,976	76,976		-2.27	30.08	-0.22	-6.47	-0.06	-8.80	-10.89	55.0	-53.3	-64.2
Nov-24	67,723	67,723		-1.99	30.08	-0.12	-3.56	-0.06	-5.61	-8.81	60.0	-55.2	-64.0
Dec-24	57,039	57,039		-1.68	30.08	-0.09	-2.76	-0.06	-4.50	-7.23	55.0	-54.9	-62.1
TOTAL 2024	900,000	900,000	0	-26.49		-3.00	-90.09	-0.73	-117.31	-116.44	755.0	-664.0	-780.5
Jan-25	57,668	57,668		-1.70	28.45	-0.08	-2.38	-0.06	-4.13	-6.36	60.0	-55.6	-61.9
Feb-25	46,720	46,720		-1.38	28.45	-0.11	-3.07	-0.06	-4.51	-6.04	65.0	-58.4	-64.5
Mar-25	69,247	69,247		-2.04	28.45	-0.15	-4.37	-0.06	-6.47	-6.54	65.0	-60.2	-66.8
Apr-25	81,926	81,926		-2.41	28.45	-0.26	-7.33	-0.06	-9.80	-8.04	65.0	-60.9	-69.0
May-25	78,068	78,068		-2.30	28.45	-0.31	-8.79	-0.06	-11.15	-9.46	65.0	-61.4	-70.8
Jun-25	92,726	92,726		-2.73	28.45	-0.44	-12.54	-0.06	-15.33	-11.50	65.0	-61.7	-73.2
Jul-25	91,072	91,072		-2.68	28.45	-0.48	-13.75	-0.06	-16.50	-13.29	65.0	-62.0	-75.3
Aug-25	92,302	92,302		-2.72	28.45	-0.43	-12.37	-0.06	-15.14	-13.66	65.0	-62.2	-75.9
Sep-25	88,534	88,534		-2.61	28.45	-0.30	-8.52	-0.06	-11.18	-12.37	65.0	-62.4	-74.8
Oct-25	76,976	76,976		-2.27	28.45	-0.22	-6.12	-0.06	-8.45	-10.51	65.0	-62.6	-73.1
Nov-25	67,723	67,723		-1.99	28.45	-0.12	-3.37	-0.06	-5.42	-8.53	65.0	-62.8	-71.3
Dec-25	57,039	57,039		-1.68	28.45	-0.09	-2.61	-0.06	-4.35	-7.02	65.0	-62.9	-69.9
TOTAL 2025	900,000	900,000	0	-26.49		-3.00	-85.21	0.75	-112.44	-113.32	775.0	-733.0	-846.4

Notes:
1. Total excavated material of 900000 tons in 2024 and 900000 tons in 2025, distributed based on historical operations.
2. and 3. Projected tons of material washed and not washed based on historical operations at pit. Actual recorded values to be used in SWSP accounting.
4. Equal to 4% of washed material (2) + 2% of material not washed (3).
5. Exposed surface area outside of lined areas that are not covered by ice. Accounting values based on measurements of actual ice cover.
6. Net evaporation based on gross evaporation (NOAA NWS-33) less 70% of average precipitation for NOAA Fort Lupton 2SE weather station (see Table 12).
7. Equal to (5) * (6).
8. 0.73 ac-ft in 2024 and -0.75 ac-ft in 2025. Distributed based on historical operations.
9. Equal to (4) + (7) + (8).
10. Equal to past and current mining depletions (9), lagged back to South Platte River using AWAS program with following aquifer parameters: X=1200 ft; W=7996 ft; T=90000 gpd/ft, and S=(
11. Based on pumping over previous year.
12. Equal to past and current dewatering pumping (11), lagged back to South Platte River using AWAS program with following aquifer parameters: X=1200 ft; W=7996 ft; T=90000 gpd/ft, and
13. Equal to (10) + (11) + (12). Negative values (-) represent net depletions to river system. Positive values (+) represent net accretions to river system.

Table 7
Ragsdale Reservoirs (DRMS Permit No. M-2020-007)
January 2024 to December 2025 SWSP Accounting
(all values in acre-feet, unless otherwise noted)

Person Responsible for this plan:
Lynn Mayer Shults
303.286.2247

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)
	DEPLETIONS																						
	MINING DEPLETIONS																	**DEWATERING**					
Month	Aggregate Production				Evaporation			Water Pumped from Cannon Pipeline	Dust Control	Concrete		Total Depletions from Eastern Pit Area				Total Depletions from Western Pit Area		Total Pumped		Pumped to River	Pumped to Recharge		**TOTAL DEPLETIONS**
	Total Excavated Material (tons)	Material Washed (tons)	Material Not Washed (tons)	Water Consumed	Exposed Area (ac)	Net Evap. Rate (ft)	Total Evap.			Total Production (cu. yds.)	Water Consumed	Consumptively Used	Dewatering	Not Lagged	Lagged	Not Lagged	Lagged	Not Lagged	Lagged		Not Lagged	Lagged	
Jan-24	128,150	128,150		-3.77	14.77	-0.08	-1.23		-0.10		0.00			0.00	0.00	-5.00	-1.90	85.0	-136.9	85.0		0.0	-138.9
Feb-24	103,821	103,821		-3.06	14.77	-0.11	-1.59		-0.10		0.00			0.00	0.00	-4.65	-3.11	55.0	-107.6	0.0	55.0	-40.0	-110.8
Mar-24	153,883	153,883		-4.53	14.77	-0.15	-2.27		-0.10		0.00			0.00	0.00	-6.80	-4.22	55.0	-93.5	0.0	55.0	-48.1	-97.9
Apr-24	182,057	182,057		-5.36	14.77	-0.26	-3.80		-0.10		0.00			0.00	0.00	-9.16	-5.88	55.0	-87.4	55.0		-10.1	-93.4
May-24	173,484	173,484		-5.11	14.77	-0.31	-4.56		-0.10		0.00			0.00	0.00	-9.67	-7.00	65.0	-86.9	85.0		-3.3	-94.0
Jun-24	206,057	206,057		-6.06	14.77	-0.44	-6.51		-0.10		0.00			0.00	0.00	-12.58	-8.63	65.0	-86.2	100.0		-2.3	-95.0
Jul-24	202,383	202,383		-5.96	14.77	-0.48	-7.14		-0.10		0.00			0.00	0.00	-13.10	-9.90	65.0	-84.2	95.0		-1.7	-94.2
Aug-24	205,115	205,115		-6.04	14.77	-0.43	-6.42		-0.10		0.00			0.00	0.00	-12.46	-10.25	60.0	-80.2	85.0		-1.2	-90.6
Sep-24	196,742	196,742		-5.79	14.77	-0.30	-4.42		-0.10		0.00			0.00	0.00	-10.21	-9.58	60.0	-77.0	95.0		-0.9	-86.6
Oct-24	171,057	171,057		-5.03	14.77	-0.22	-3.18		-0.10		0.00			0.00	0.00	-8.21	-8.44	55.0	-73.0	85.0		-0.6	-81.5
Nov-24	150,496	150,496		-4.43	14.77	-0.12	-1.75		-0.10		0.00			0.00	0.00	-6.18	-7.15	70.0	-75.6	50.0	20.0	-15.0	-82.8
Dec-24	126,754	126,754		-3.73	14.77	-0.09	-1.35		-0.10		0.00			0.00	0.00	-5.08	-6.11	30.0	-62.5	0.0	30.0	-25.1	-68.7
TOTAL 2024	2,000,000	2,000,000	0	-58.86		-3.00	-44.24	0.00	-1.22	0	0.00	0.00	0.00	0.00	0.00	-103.10	-82.17	720.0	-1050.9				-1134.3
	140,965	140,965		-4.15	14.77	-0.08	-1.23		-0.12		0.00			0.00	0.00	-5.38	-5.78	80.0	-55.7	85.0		-5.4	-61.6
Feb-25	114,204	114,204		-3.36	14.77	-0.11	-1.59		-0.12		0.00			0.00	0.00	-4.96	-5.55	55.0	-57.5	15.0	55.0	-41.8	-63.2
Mar-25	169,272	169,272		-4.98	14.77	-0.15	-2.27		-0.12		0.00			0.00	0.00	-7.25	-6.26	55.0	-53.7	15.0	55.0	-49.3	-60.1
Apr-25	200,263	200,263		-5.89	14.77	-0.26	-3.80		-0.12		0.00			0.00	0.00	-9.70	-7.73	55.0	-53.4	55.0		-11.0	-61.2
May-25	190,833	190,833		-5.62	14.77	-0.31	-4.56		-0.12		0.00			0.00	0.00	-10.18	-8.70	65.0	-57.2	85.0		-4.0	-66.0
Jun-25	226,663	226,663		-6.67	14.77	-0.44	-6.51		-0.12		0.00			0.00	0.00	-13.18	-10.22	65.0	-60.0	100.0		-2.8	-70.3
Jul-25	222,621	222,621		-6.55	14.77	-0.48	-7.14		-0.12		0.00			0.00	0.00	-13.69	-11.40	65.0	-60.9	95.0		-2.0	-72.4
Aug-25	225,627	225,627		-6.64	14.77	-0.43	-6.42		-0.12		0.00			0.00	0.00	-13.06	-11.65	60.0	-59.6	85.0		-1.5	-71.4
Sep-25	216,416	216,416		-6.37	14.77	-0.30	-4.42		-0.12		0.00			0.00	0.00	-10.79	-10.89	60.0	-58.7	95.0		-1.1	-69.7
Oct-25	188,162	188,162		-5.54	14.77	-0.22	-3.18		-0.12		0.00			0.00	0.00	-8.72	-9.63	55.0	-56.7	85.0		-0.8	-66.5
Nov-25	165,546	165,546		-4.87	14.77	-0.12	-1.75		-0.12		0.00			0.00	0.00	-6.62	-8.23	60.0	-57.4	40.0	20.0	-15.1	-65.7
Dec-25	139,429	139,429		-4.10	14.77	-0.09	-1.35		-0.12		0.00			0.00	0.00	-5.46	-7.08	45.0	-52.8	15.0	30.0	-25.2	-60.0
TOTAL 2025	2,200,000	2,200,000	0	-64.75		-3.00	-44.24	0.00	-1.23	0	0.00	0.00	0.00	0.00	0.00	-108.99	-103.12	720.0	-683.6				-788.2

Notes:
1. Total excavated material of 2000000 tons in 2024 and 2200000 tons in 2025, uniformly distrubuted.
2. and 3. Projected tons of material washed and not washed based on anticipated operations at pit. Actual recorded values to be used in SWSP accounting.
4. Equal to 4% of washed material (2) + 2% of material not washed (3).
5. Exposed surface area outside of lined areas that are not covered by ice. Accounting values based on measurements of actual ice cover.
6. Net evaporation based on gross evaporation (NOAA NWS-33) less 70% of average precipitation for NOAA Fort Lupton 2SE weather station (see Table 12).
7. Equal to (5) * (6).
8. 0 ac-ft in 2024 and 0 ac-ft in 2025. Uniformly distrubted.
9. 1.22 ac-ft in 2024 and 1.23 ac-ft in 2025. Uniformly distrubted.
10. Total concrete production of 0 cubic yards in 2024 and 0 cubic yards in 2025, uniformly distributed.
11. Equal to (10) * 50 gallons per cubic yard / 325851, and included as part of dewatering (18).
12. Anticipated water pumped for consumptive use from Eastern Pit Area.
13. Anticipated water pumped for dewatering purposes from Eastern Pit Area.
14. Equal to (12) + (13).
15. Equal to past and current mining depletions (15), lagged back to Cannon Pipeline using AWAS program with following aquifer parameters: X=2430 ft; W=5550 ft;T=162710 gpd/ft, and S=0.2.
16. Equal to (4) + (7).
17. Equal to past and current mining depletions (16), lagged back to Cannon Pipeline using AWAS program with following aquifer parameters: X=530 ft; W=5410 ft;T=186320 gpd/ft, and S=0.2.
18. Anticipated dewatering at Phase 1-A.
19. Equal to past and current dewatering pumping (18), lagged back to Cannon Pipeline using AWAS program with following aquifer parameters: X=1456 ft; W=8586 ft; T=170633 gpd/ft, and S=0.2.
20. Anticipated amount of dewatering pumped to River.

Table 8
L.G. Everist South Platte River Mining Permit Area Summary
January 2024 to December 2025 SWSP Accounting
(all values in acre-feet, unless otherwise noted)

Person Responsible for this plan:
Lynn Mayer Shults
303.286.2247

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)
	TOTAL DEPLETIONS					REPLACEMENTS										RIVER BALANCE			
Month	Ft. Lupton	Ragsdale	Total	Percent of Month with Call	Out-of-Priority Net Depletion	Dewatering Credits Ft. Lupton	Dewatering Credits Ragsdale	recharge from Dewatering	Release of Free River from Swingle Pit	Lupton Bottom Ditch Depletions	Ft Lupton Recharge	Excess St Vrain Ck Credits	Transit Losses	St Vrain Ck Credits	Laramie-Fox Hill Well Pumping	Preliminary Balance	Credits use to meet St Vrain Ck Depletions	Lease Water	Balance
Jan-24	-46.04	-138.88	-184.92	0%	0.00	65.0	85.0	0.0	35.5	-0.20	0.08					185.58			185.58
Feb-24	-57.23	-110.77	-168.00	0%	0.00	65.0	0.0	40.0	23.3	-0.20	0.08					128.37			128.37
Mar-24	-61.17	-97.86	-159.03	26%	-41.04	65.0	0.0	12.4	0.0	0.00	0.08					36.46			36.46
Apr-24	-64.50	-93.36	-157.86	40%	-63.14	65.0	55.0	4.0	15.5	2.38	0.08					78.85			78.85
May-24	-65.48	-94.03	-159.51	71%	-113.20	60.0	85.0	2.4	0.0	7.82	0.08					42.07			42.07
Jun-24	-71.96	-94.97	-166.93	83%	-139.11	75.0	100.0	1.9	0.0	11.00	0.07					48.88			48.88
Jul-24	-78.16	-94.16	-172.32	100%	-172.32	75.0	95.0	1.7	0.0	14.55	0.07					13.95			13.95
Aug-24	-76.85	-90.55	-167.40	100%	-167.40	65.0	85.0	1.2	2.5	12.42	0.07					-1.20			-1.20
Sep-24	-68.79	-86.63	-155.42	100%	-155.42	50.0	95.0	0.9	1.5	7.19	0.07					-0.78			-0.78
Oct-24	-64.21	-81.51	-145.72	100%	-145.72	55.0	85.0	0.6	2.0	2.62	0.07					-0.39			-0.39
Nov-24	-63.98	-82.83	-146.81	100%	-146.81	60.0	50.0	15.0	7.0	-0.39	0.07					-15.12			-15.12
Dec-24	-62.08	-68.74	-130.82	100%	-130.82	55.0	0.0	25.1	25.8	-0.30	0.07					-25.18			-25.18
TOTAL 2024	-780.45	-1134.31	-1914.76		-1274.99	755.00	735.00	105.32	113.00	56.89	0.89	0.00	0.00	0.00	0.00	491.50	0.00		491.50
Jan-25	-61.91	-61.62	-123.53	100.0%	-123.53	60	85	5.39	0.00	-0.20	0.07					26.73	26.73		0.00
Feb-25	-64.46	-63.16	-127.62	100.0%	-127.62	65.0	15.0	41.8	3.0	-0.20	0.06	0.49	-0.01	0.48		-2.49			-2.49
Mar-25	-66.76	-60.12	-126.88	100%	-126.88	65.0	15.0	49.3	0.0	0.00	0.06	10.65	-0.29	10.36		12.88	2.52		10.36
Apr-25	-68.97	-61.22	-130.19	100%	-130.19	65.0	55.0	11.0	0.0	2.38	0.06					3.23	3.23		0.00
May-25	-70.83	-66.01	-136.84	100%	-136.84	65.0	85.0	4.0	0.0	7.82	0.06	3.19	-0.18	3.02		28.04	25.02		3.02
Jun-25	-73.20	-70.33	-143.53	100%	-143.53	65.0	100.0	2.8	0.0	11.00	0.06	7.65	-0.42	7.23		42.52	35.29		7.23
Jul-25	-75.26	-72.44	-147.70	100%	-147.70	65.0	95.0	2.0	0.0	14.55	0.06	24.69	-1.36	23.34		52.24	28.91		23.34
Aug-25	-75.86	-71.36	-147.22	100%	-147.22	65.0	85.0	1.5	0.0	12.42	0.06					16.71	16.71		0.00
Sep-25	-74.78	-69.69	-144.47	100%	-144.47	65.0	95.0	1.1	0.0	7.19	0.06					23.84	23.84		0.00
Oct-25	-73.10	-66.49	-139.59	100%	-139.59	65.0	85.0	0.8	0.0	2.62	0.06					13.86	13.86		0.00
Nov-25	-71.29	-65.74	-137.03	100%	-137.03	65.0	40.0	15.1	18.0	-0.39	0.05					0.75	0.75		0.00
Dec-25	-69.93	-59.97	-129.90	100%	-129.90	65.0	15.0	25.2	26.0	-0.30	0.05					1.04	1.04		0.00
TOTAL 2025	-846.35	-788.15	-1634.50		-1634.50	775.00	770.00	159.83	47.00	56.89	0.71	46.67	-2.26	44.41	0.00	219.34	177.89		41.45

Notes:
1. See Table 6, Column (13).
2. See Table 7, Column (23).
3. Equal to (1) + (2).
4. Percent of month with call placed downstream of permit areas based on Water Division 1 records. Accounting values based on actual recorded calls.
5. Equal to [(2) * (3)] < 0.
6. Dewatering credits from Fort Lupton Pumping
7. Dewatering Credits from Ragsdale Pumping to River and lagged credits to recharge
8. Lagged Recharge from dewatering. Multiplied by Column 4.
9. Release of free river water stored in Swingle Pit from Table 11
10. Historical lagged depletions associated with dry up of land under Lupton Bottom Ditch associated with recorded augmentation station deliveries of up to 52 LMDC share(s) in 2024 and in 2025 summarized in Table 9. Return flow obligations (negative values) are multiplied by portion of month with call (3).
11. Accretions from 2018 recharge of reusable supplies at Fort Lupton site.
12. Excess St Vrain credits (see Table 5, Column 12). Note use of St Vrain credits limited to periods without intervening call; e.g., Hewes Cook call on 7 days (25%) of the month means 15 ac-ft excess credits available out of 20 ac-ft in river at St Vrain permit areas prior to transit loss.
13. Based on (12) and transit loss over 11 miles to South Platte River confluence at summer (Apr - Oct) / winter (Nov-Mar) loss rate of 0.50% / 0.25% per mile.
14. Equal to (12) + (13).
15. Pumping from one or more of L.G. Everist's Laramie-Fox Hill wells (WDIDs 0210211, 0210212, and 0210213). Includes 2% relinquishment requirement.
16. Equal to [(3) * (4)] > 0 + (5) + (6) + (7) + (8) + (9) + (10) + (11) + (12) + (13). Negative values (-) represent net depletions to river system. Positive values (+) represent net accretions to river system.
16. See Table 5, Column 9.
17. Credits for replacement from lease with Firestone, after transit losses.
18. Storage Credits from lined pit
19. Equal to (15) - (16) + (18).

Table 9
L.G. Everist Replacement Supplies Summary

Deliveries recorded at ditch augmentation stations

Rural Ditch Supply

2024	Deliveries	Net Depletions	Depletion Factors	# Shares
Jan-24		-4.01	-0.029	1.9
Feb-24		-3.75	-0.027	1.9
Mar-24		-3.47	-0.025	1.9
Apr-24	3.70	-1.90	-0.514	1.9
May-24	26.40	17.40	0.659	1.9
Jun-24	40.90	29.98	0.733	1.9
Jul-24	57.70	44.49	0.771	1.9
Aug-24	40.10	28.79	0.718	1.9
Sep-24	21.40	11.49	0.537	1.9
Oct-24	7.60	-0.40	-0.053	1.9
Nov-24		-6.33	-0.032	1.9
Dec-24		-6.13	-0.031	1.9
TOTAL 2024	197.80	106.15		

2025	Deliveries	Net Depletions	Depletion Factors	# Shares
Jan-25		-5.74	-0.029	1.9
Feb-25		-5.34	-0.027	1.9
Mar-25		-4.95	-0.025	1.9
Apr-25	3.70	-1.90	-0.514	1.9
May-25	26.40	17.40	0.659	1.9
Jun-25	40.90	29.98	0.733	1.9
Jul-25	57.70	44.49	0.771	1.9
Aug-25	40.10	28.79	0.718	1.9
Sep-25	21.40	11.49	0.537	1.9
Oct-25	7.60	-0.40	-0.053	1.9
Nov-25		-6.33	-0.032	1.9
Dec-25		-6.13	-0.031	1.9
TOTAL 2025	197.80	101.36		

Deliveries will be recorded at Everist's Rural Ditch augmentation station (RUTAILCO).
Credits from Rural Ditch share used to meet Everist SWSP depletions, direct industrial use at cells within St. Vrain Creek permit areas, and replacement water pursuant to lease delivery requirements.

Deliveries recorded at ditch augmentation stations

Lupton Bottom Ditch Supply

2024	Deliveries	Net Depletions	Depletion Factors	Return Flows from Prior Year
Jan-24		-0.20	-0.002	1.64
Feb-24		-0.20	-0.002	1.29
Mar-24		0.00	0.000	1.06
Apr-24	4.62	2.38	0.515	0.88
May-24	14.14	7.82	0.553	0.69
Jun-24	18.55	11.00	0.593	0.50
Jul-24	23.31	14.55	0.624	0.34
Aug-24	20.06	12.42	0.619	0.21
Sep-24	12.44	7.19	0.578	0.10
Oct-24	5.47	2.62	0.479	0.03
Nov-24		-0.39	-0.004	0.00
Dec-24		-0.30	-0.003	0.00
TOTAL 2024	98.59	56.89		

2025	Deliveries	Net Depletions	Depletion Factors
Jan-25		-0.20	-0.002
Feb-25		-0.20	-0.002
Mar-25		0.00	0.000
Apr-25	4.62	2.38	0.515
May-25	14.14	7.82	0.553
Jun-25	18.55	11.00	0.593
Jul-25	23.31	14.55	0.624
Aug-25	20.06	12.42	0.619
Sep-25	12.44	7.19	0.578
Oct-25	5.47	2.62	0.479
Nov-25		-0.39	-0.004
Dec-25		-0.30	-0.003
TOTAL 2025	98.59	56.89	

Deliveries will be recorded at Lupton Bottom Ditch Company augmentation stations (LPBEASCO and LPBWESCO).
Credits from Lupton Bottom Ditch share used to meet Everist SWSP depletions, direct industrial use at cells within South Platte River permit area, and replacement water pursuant to lease delivery requirements.

Table 10
L.G. Everist Replacement Supplies Summary

2024	Lease Source	Lease Amount (acre-feet)	Amount Available After Transit Loss (acre-feet)	Transit Loss
Jan-24				0.25%
Feb-24	Firestone			0.25%
Mar-24	Firestone			0.25%
Apr-24	Firestone			0.50%
May-24	Firestone	0.00	0.000	0.50%
Jun-24	Firestone	0.00	0.000	0.50%
Jul-24	Firestone	0.00	0.000	0.50%
Aug-24	Firestone			0.50%
Sep-24	Firestone	12.00	12.000	0.50%
Oct-24	Firestone	23.00	23.00	0.50%
Nov-24	Firestone	27.00	27.000	0.25%
Dec-24	Firestone	27.00	27.000	0.25%
TOTAL 2024		89.00	89.00	

2025	Lease Source	Lease Amount (acre-feet)	Amount Available After Transit Loss (acre-feet)	
Jan-25	Firestone	0.00	0.00	0.25%
Feb-25			0.00	0.25%
Mar-25			0.00	0.25%
Apr-25	Firestone	0.50	0.50	0.50%
May-25	Firestone	0.00	0.000	0.50%
Jun-25	Firestone	4.25	4.250	0.50%
Jul-25	Firestone	10.75	10.750	0.50%
Aug-25	Firestone	0.00	0.000	0.50%
Sep-25	Firestone	0.00	0.000	0.50%
Oct-25	Firestone	9.00	9.000	0.50%
Nov-25	Firestone	22.00	22.000	0.25%
Dec-25	Firestone	37.50	37.50	0.25%
TOTAL 2025		84.00	84.00	

Table 11
L.G. Everist Replacement Supplies Summary

2023	Exposed Area Source	Exposed Area (Ac)	Net Evap Rate	Total Evap	Additions for storage	Releases for depletions	total avail Amount Available After Evap (acre-feet)
Jan-23	Swingle pit	0.00	-0.08	0.00			0.00
Feb-23	Swingle pit	0.00	-0.11	0.00			0.00
Mar-23	Swingle pit	0.00	-0.15	0.00			0.00
Apr-23	Swingle pit	0.00	-0.26	0.00			0.00
May-23	Swingle pit	0.00	-0.31	0.00			0.00
Jun-23	Swingle pit	0.00	-0.44	0.00			155.60
Jul-23	Swingle pit	29.47	-0.48	-14.25			141.35
Aug-23	Swingle pit	29.47	-0.43	-12.81			128.54
Sep-23	Swingle pit	29.47	-0.30	-8.82			119.72
Oct-23	Swingle pit	29.47	-0.22	-6.34			113.38
Nov-23	Swingle pit	29.47	-0.12	-3.49			109.89
Dec-23	Swingle pit	29.47	-0.09	-2.70			107.19
	Jan-00		-3.00	-48.41		0.00	

2024	Exposed Area Source	Exposed Area (Ac)	Net Evap Rate	Total Evap	Additions for storage	Releases for depletions	Amount Available After Evap (acre-feet)
Jan-24	Swingle pit	29.47	-0.08	-2.46		35.50	69.23
Feb-24	Swingle pit	29.47	-0.11	-3.18	30.00	23.25	72.80
Mar-24	Swingle pit	29.47	-0.15	-4.53	40.00		108.27
Apr-24	Swingle pit	29.47	-0.26	-7.59		15.50	85.18
May-24	Swingle pit	29.47	-0.31	-9.10			76.08
Jun-24	Swingle pit	29.47	-0.44	-12.99			63.08
Jul-24	Swingle pit	29.47	-0.48	-14.25			48.84
Aug-24	Swingle pit	29.47	-0.43	-12.81		2.50	33.53
Sep-24	Swingle pit	29.47	-0.30	-8.82		1.50	23.21
Oct-24	Swingle pit	29.47	-0.22	-6.34		2.00	14.86
Nov-24	Swingle pit	29.47	-0.12	-3.49	20.00	7.00	24.38
Dec-24	Swingle pit	29.47	-0.09	-2.70	20.00	25.75	15.93
	TOTAL 2024		-3.00	-88.27		113.00	

2025	Lease Source	Exposed Area	Net Evap Rate	Total Evap	Additions for storage	Releases for depletions	Amount Available After Transit Loss (acre-feet)
Jan-25	Swingle pit	29.47	-0.08	-2.46	55.00		68.46
Feb-25	Swingle pit	29.47	-0.11	-3.18	50.00	3.00	118.28
Mar-25	Swingle pit	29.47	-0.15	-4.53		0.00	113.76
Apr-25	Swingle pit	29.47	-0.26	-7.59			106.17
May-25	Swingle pit	29.47	-0.31	-9.10			97.06
Jun-25	Swingle pit	29.47	-0.44	-12.99			84.07
Jul-25	Swingle pit	29.47	-0.48	-14.25			69.82
Aug-25	Swingle pit	29.47	-0.43	-12.81			57.01
Sep-25	Swingle pit	29.47	-0.30	-8.82			48.19
Oct-25	Swingle pit	29.47	-0.22	-6.34			41.85
Nov-25	Swingle pit	29.47	-0.12	-3.49		18.00	56.36
Dec-25	Swingle pit	29.47	-0.09	-2.70		26.00	79.66
	TOTAL 2025		-3.00	-88.27		47.00	940.71

Table 12
L.G. Everist Gravel Permit Area Accounting
Projected Evaporation Depletions

Carbon Valley Resource
NOAA Longmont 2ESE weather station

	(1)	(2)	(3)	(4)	(5)	(6)
	Monthly Distribution	Gross Evaporation	Average Precipitation	Effective Precipitation	Unit Net Depletion	
		(in)	(in)	(in)	(in)	(ft)
Jan	3.0%	1.20	0.40	0.28	0.92	0.08
Feb	3.5%	1.40	0.39	0.27	1.13	0.09
Mar	5.5%	2.21	1.13	0.79	1.41	0.12
Apr	9.0%	3.61	1.73	1.21	2.40	0.20
May	12.0%	4.81	2.46	1.72	3.09	0.26
Jun	14.5%	5.81	1.73	1.21	4.60	0.38
Jul	15.0%	6.02	1.12	0.78	5.23	0.44
Aug	13.5%	5.41	1.24	0.87	4.55	0.38
Sep	10.0%	4.01	1.22	0.85	3.16	0.26
Oct	7.0%	2.81	0.84	0.59	2.22	0.18
Nov	4.0%	1.60	0.69	0.48	1.12	0.09
Dec	3.0%	1.20	0.45	0.32	0.89	0.07
TOTAL	100.0%	40.10	13.40	9.38	30.72	2.56

Notes:

1. Monthly distribution per Senate Bill 89-120 guidelines for elevations < 6,500 ft
2. Annual gross evaporation from NOAA NWS-33 (40.1 in.) distributed monthly per (1)
3. Average monthly precipitation from Longmont 2ESE weather station (1949-2005)
4. (3) * 0.7
5. (2) - (4) > 0, with depletions set to 0 if average monthly temperature at weather station < 32 degrees Fahrenheit.
6. (5) / 12

Fort Lupton
NOAA Fort Lupton 2SE weather station

	(1)	(2)	(3)	(4)	(5)	(6)
	Monthly Distribution	Gross Evaporation	Average Precipitation	Effective Precipitation	Unit Net Depletion	
		(in)	(in)	(in)	(in)	(ft)
Jan	3.0%	1.34	0.48	0.34	1.00	0.08
Feb	3.5%	1.56	0.38	0.27	1.30	0.11
Mar	5.5%	2.45	0.87	0.61	1.84	0.15
Apr	9.0%	4.01	1.32	0.92	3.09	0.26
May	12.0%	5.35	2.35	1.65	3.71	0.31
Jun	14.5%	6.47	1.68	1.18	5.29	0.44
Jul	15.0%	6.69	1.27	0.89	5.80	0.48
Aug	13.5%	6.02	1.15	0.81	5.22	0.43
Sep	10.0%	4.46	1.24	0.87	3.59	0.30
Oct	7.0%	3.12	0.77	0.54	2.58	0.22
Nov	4.0%	1.78	0.52	0.36	1.42	0.12
Dec	3.0%	1.34	0.34	0.24	1.10	0.09
TOTAL	100.0%	44.60	12.37	8.66	35.94	3.00

Notes:

1. Monthly distribution per Senate Bill 89-120 guidelines for elevations < 6,500 ft
2. Annual gross evaporation from NOAA NWS-33 (44.6 in.) distributed monthly per (1)
3. Average monthly precipitation from NOAA Fort Lupton 2 SE weather station (1948-1976)
4. (3) * 0.7
5. (2) - (4) > 0, with depletions set to 0 if average monthly temperature at weather station < 32 degrees Fahrenheit.
6. (5) / 12

AUGMENTATION WATER LEASE

THIS AUGMENTATION WATER LEASE AGREEMENT (hereinafter "Water Lease") is entered into this 30th day of January, 2023 ("Effective Date"), by and between Town of Firestone, a Colorado municipal corporation, acting by and through its Town of Firestone Water Activity Enterprise organized and existing as a water activity enterprise under C.R.S. § 37-45.1-101 *et seq.*, whose address is 9950 Park Avenue, Firestone, Colorado 80520 ("Firestone" or "Lessor") and L.G. Everist, Inc., a South Dakota corporation whose address is 7321 East 88th Avenue, Suite 200, Henderson, Colorado 80640 ("LGE" or "Lessee"). Firestone and LGE may be referred to herein collectively as "Parties" or individually as "Party."

RECITALS

WHEREAS, Firestone and LGE have entered into that certain Purchase and Sale Agreement dated August 10th, 2022, as amended ("Purchase and Sale Agreement") pertaining to Firestone's purchase of a certain parcel of land located in Section 32, Township 3 North, Range 67 West, 6th P.M. Weld County, Colorado as more particularly depicted on **Exhibit A**, attached hereto and incorporated herein (the "Property"); and

WHEREAS, LGE also owns a certain parcel of land located in Section 32, Township 3 North, Range 67 West, 6th P.M. Weld County, Colorado known as the "Northwest Cell," being adjacent to the Property and Firestone Pit and more particularly depicted on **Exhibit B**; and

WHEREAS, Firestone's purchase of the Property includes three and one-sixth (3 & 1/6) shares of stock in the Last Chance Ditch Company, represented by Stock Certificates 80, 81, and 83, historically used on the Property ("Water Right"); and

WHEREAS, the LGE desires to lease a certain amount of water from Firestone to meet augmentation requirements associated with LGE's mining and use of the Property and the Northwest Cell.

NOW, THEREFORE, in consideration of the mutual promises of the Parties and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the Parties agree as follows:

WATER LEASE AGREEMENT

1. INCORPORATION: The above Recitals are incorporated into this Water Lease as if fully set forth herein.

2. LEASED INTEREST: Lessor hereby agrees, during the Term of this Water Lease, to provide Lessee with up to 125 acre feet of augmentation water per year, or a lesser amount as required by an approved Substitute Water Supply Plan associated with Lessee's mining permit for the Property, and pursuant to the Monthly Delivery Schedule(s) to be provided to Lessor by Lessee on an annual basis during the Term of this Water Lease ("Augmentation Water").

3. TERM OF WATER LEASE: The Term of this Water Lease shall be from the Effective Date until December 31, 2031, or until LGE delivers the completed Firestone Pit pursuant to the Purchase and Sale Agreement, whichever is sooner.

4. CONSIDERATION: Lessee agrees to pay Lessor Three Hundred Dollars ($300.00) per acre-foot of Augmentation Water delivered pursuant to the Monthly Delivery Schedule. Payment for Lessee's first monthly delivery of Augmentation Water in accordance with the Monthly Delivery Schedule shall be due and payable to Lessor on the Effective Date. All subsequent payments are to be provided to Lessor at the address provided below. All payments due to Lessor from Lessee shall be payable upon receipt of an invoice therefor and shall be paid within thirty (30) days of receipt thereof.

5. DELIVERY OF WATER: Lessee's Augmentation Water will be delivered at the St. Vrain Sanitation District discharge point to the St. Vrain River, or at another location as may be mutually agreed upon by the Parties.

6. FURTHER APPROVAL: Lessee shall be responsible for obtaining any and all approvals as are necessary for Lessee's use of the Augmentation Water in its Substitute Water Supply Plans or otherwise and shall be responsible for accounting for its use of the Augmentation Water to the appropriate State water administration officials, water court and/or other parties who may be entitled to such information. Lessee shall provide Lessor with copies of its accounting illustrating Lessee's use of the Augmentation Water as reasonably requested by Lessor.

7. NO CONTINUING RIGHTS TO AUGMENTATION WATER: Lessee shall have no continuing rights in and to the water owned and/or controlled by Lessor after the termination of this Water Lease. Lessee does not own the water delivered under this Water Lease and Lessee's rights to use the Augmentation Water are limited as described in this Water Lease.

8. NOTICE: Any notice required or permitted to be given under this Water Lease shall be in writing and shall be deemed given and effective when delivered by electronic mail, Express Mail, Federal Express, or like service, or on the third mail delivery day after it is deposited in the United States mail, postage prepaid by certified or registered mail, return receipt requested, addressed to the Parties as follows:

If to Lessor: Town of Firestone, Colorado
Attn: Julie Pasillas, Director of Public Works
9950 Park Avenue
Firestone, CO 80520
Phone: 303-531-6258

With a copy to:
Attn: Wes Knoll
Lawrence Custer Grasmick Jones & Donovan, LLP
5245 Ronald Reagan Blvd., Suite 1

Johnstown, CO 80534
Phone: (970) 622-8181
wes@lcwaterlaw.com

If to Lessee: L.G. Everist Inc.
Attn: Matthew Noteboom
L.G. Everist, Incorporated,
7321 East 88th Avenue, Suite 200
Henderson, CO 80640
Phone: (303) 941-9620
msnoteboom@lgeverist.com

With a copy to:
Attn: Mike Fredregill, Esq.
Wellborn, Sullivan, Meck & Tooley, P.C.
1401 Lawrence Street, Suite 1800
Denver, CO 80202
(303) 376-4468
mfredregill@wsmtlaw.com

9. WAIVER: Unless otherwise specifically provided herein, no provision of this Water Lease may be waived except by written instrument signed by the Party to be charged with such wavier. Failure by any Party to enforce any provision of this Water Lease shall not constitute a waiver of such provision, and no waiver by any Party to this Water Lease of any provision of this Water Lease on one occasion shall constitute a waiver of any other provision or of the same provision on another occasion.

10. AMENDMENT: This Water Lease may be modified, amended, changed or terminated in whole or in part only by mutual agreement in writing, duly authorized and executed by the Parties hereto, their successors and assigns.

11. ASSIGNMENT: This Water Lease shall be binding upon and shall inure to the benefit of the successors and assigns of the Parties hereto. Neither Party may assign any interest under this Water Lease without the prior written consent of the other Party which shall not be unreasonably withheld.

12. ENTIRE AGREEMENT: This Water Lease, including the exhibits, which are attached hereto and incorporated herein, along with those certain separate agreement(s) by and among the Parties hereto and specifically referenced herein, shall constitute the entire agreement between the Parties and supersedes any other written or oral agreements between Lessor and Lessee regarding the subject matter of this Water Lease. This Water Lease may be modified only by the written agreement of both Parties.

13. IDEMNIFICATION: Lessee hereby agrees to indemnify and to hold Lessor harmless of and from any claims or causes of action from third parties against Lessor arising from Lessee's negligent actions in performance of this Water Lease.

14. NO WAIVER OF IMMUNITY: No portion of this Water Lease shall be deemed to constitute a waiver of any immunities afforded to Lessor, its officers, agents or employees, nor shall any portion of this Water Lease be deemed to have created a duty of care which did not previously exist with respect to any person or entity not a party to this Water Lease.

15. SEVERABILITY: If any clause or provision of this Water Lease shall be held invalid or unenforceable, the remainder of this Water Lease shall not be affected thereby.

16. HEADINGS FOR CONVENIENCE ONLY: Paragraph headings and titles contained herein are intended for convenience and reference only and are not intended to define or limit the scope or intent of any provision of this Water Lease.

17. GOVERNING LAW: This Water Lease and its application shall be construed in accordance with the laws of the State of Colorado. Venue for any dispute arising under this Water Lease shall be proper in and for the District Court in and for the County of Weld, State of Colorado, 19th Judicial District.

18. FORCE MAJEURE: Each Party to this Water Lease is excused from performing under this Water Lease to the extent it is rendered unable to perform during any period of time during which a force majeure situation occurs. The term "force majeure" means acts not within the reasonable control of the non-performing party and includes acts of God; strikes; lockouts or epidemics; landslides; lightening; tornados; earthquakes; fires; storms; explosions; the necessity for making unscheduled repairs or alterations to machinery, lines of pipe, or plants; freezing of wells, plants, facilities or lines of pipe; partial or entire failure of wells; inability of any party to obtain necessary materials, supplies, or permits due to existing, or future rules, regulations, orders, laws or proclamations of any governmental authorities, including both civil and military; and any failure by third-party transporters. In the event of force majeure, both Parties shall work together to resume operations as contemplated in this Water Lease as soon as reasonably practical. Neither Party hereto shall be liable for any failure of performance due to causes beyond its reasonable control and the occurrence of which it could not have been prevented by the exercise of due diligence.

IN WITNESS WHEREOF, the Parties hereto have duly executed this Water Lease as of the Effective Date set forth above:

[REMAINDER OF THIS PAGE INTENTIONALLY LEFT BLANK]

LESSOR:
Town of Firestone, Colorado

_____

By:_____
Its:_____

STATE OF COLORADO)
)
COUNTY OF WELD)

Acknowledged before me this 27th day of January, 2023, by _____.

WITNESS my hand and official seal.

My Commission Expires: _____

_____
Notary Public

LESSEE:
L.G. Everist, Incorporated,
a South Dakota corporation

_____
By: Matthew Notebaum
Its: VP - Montana

STATE OF COLORADO)
)
COUNTY OF WELD)

Acknowledged before me this 27th day of January, 2023, by Matthew Notebaum

WITNESS my hand and official seal.

My Commission Expires: 1-14-2023

DAKOTA MCLEOD KOCHER
NOTARY PUBLIC
STATE OF COLORADO
NOTARY ID 20154001633
MY COMMISSION EXPIRES JANUARY 14, 2027

_____
Notary Public

LESSOR:
Town of Firestone, Colorado

By: _____
Its: _____

STATE OF COLORADO)
)
COUNTY OF WELD)

Acknowledged before me this 27th day of January, 2023, by AJ Krieger.

WITNESS my hand and official seal.

My Commission Expires: June 7, 2024

RUSTI ROBERTO
NOTARY PUBLIC
STATE OF COLORADO
NOTARY ID 20164021596
MY COMMISSION EXPIRES JUNE 07, 2024

Rusti Roberto
Notary Public

LESSEE:
L.G. Everist, Incorporated,
a South Dakota corporation

By: _____
Its: _____

STATE OF COLORADO)
)
COUNTY OF WELD)

Acknowledged before me this 27th day of January, 2023, by _____.

WITNESS my hand and official seal.

My Commission Expires: 1-14-2023

DAKOTA MCLEOD KOCHER
NOTARY PUBLIC
STATE OF COLORADO
NOTARY ID 20154001630
MY COMMISSION EXPIRES JANUARY 14, 2023

Notary Public

AMENDMENT TO AUGMENTATION WATER LEASE

THIS AMENDMENT TO AUGMENTATION WATER LEASE AGREEMENT (hereinafter "Amendment") is entered into this 6 day of June, 2024 ("Effective Date"), by and between Town of Firestone, a Colorado municipal corporation, acting by and through its Town of Firestone Water Activity Enterprise organized and existing as a water activity enterprise under C.R.S. § 37-45.1-101 *et seq.*, whose address is 9950 Park Avenue, Firestone, Colorado 80520 ("Firestone" or "Lessor") and L.G. Everist, Inc., a South Dakota corporation whose address is 7321 E. 88th Ave., Suite 200, Henderson, CO 80640 ("LGE" or "Lessee"). Firestone and LGE may be referred to herein collectively as "Parties" or individually as "Party."

RECITALS

WHEREAS, Firestone and LGE have entered into an AUGMENTATION WATER LEASE dated January 30, 2023 attached hereto as Exhibit A and incorporated herein ("Augmentation Water Lease") pertaining to Lessee's use of augmentation water leased from Lessor.

WHEREAS, the Parties desire to amend the Augmentation Water Lease to clarify Lessee has the ability to use the amounts of leased water to augment depletions associated with Lessee's mining activities across multiple sites as identified in its combined Substitute Water Supply Plan.

NOW, THEREFORE, in consideration of the mutual promises of the Parties and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the Parties agree as follows:

AMENDMENT

1. Incorporation: The above Recitals are incorporated into this Water Lease as if fully set forth herein.
2. Amendment. The Parties hereby agree to amend the Augmentation Water Lease to provide that the leased water may be used to augment depletions associated with Lessee's mining and related activities across multiple sites as identified in its combined Substitute Water Supply Plan. However, nothing in this Amendment shall be construed to require Firestone to provide an amount of water in excess of the depletion obligations associated with Lessee's mining permit for the Property (as that term is defined in the Augmentation Water Lease) as more specifically described in Paragraph 2 of the Augmentation Water Lease or at locations other than the delivery location described in Paragraph 5 of the Augmentation Water Lease. Delivery shall be measured at the point described in Paragraph 5 of the Augmentation Water Lease and Lessee shall bear all transit losses from the point of delivery to the point of use under its combined Substitute Water Supply Plan.
3. No Modifications. Except as specifically modified herein, all terms and conditions of the Augmentation Water Lease remain as is, and in full force and effect.

LESSOR:
Town of Firestone, Colorado

By: Town Manager
Its: A.J. Krieger

STATE OF COLORADO)
)
COUNTY OF WELD)

Acknowledged before me this 7 day of June, 2024, by A.J. Krieger.

WITNESS my hand and official seal.

My Commission Expires: June 7 2028

RUSTI ROBERTO
NOTARY PUBLIC
STATE OF COLORADO
NOTARY ID 20164021596
MY COMMISSION EXPIRES JUNE 07, 2028

Rusti Roberto
Notary Public

LESSEE:
L.G. Everist, Incorporated,
a South Dakota corporation

By: Matthew Notehoum
Its: VP - Materials

STATE OF COLORADO)
)
COUNTY OF WELD)

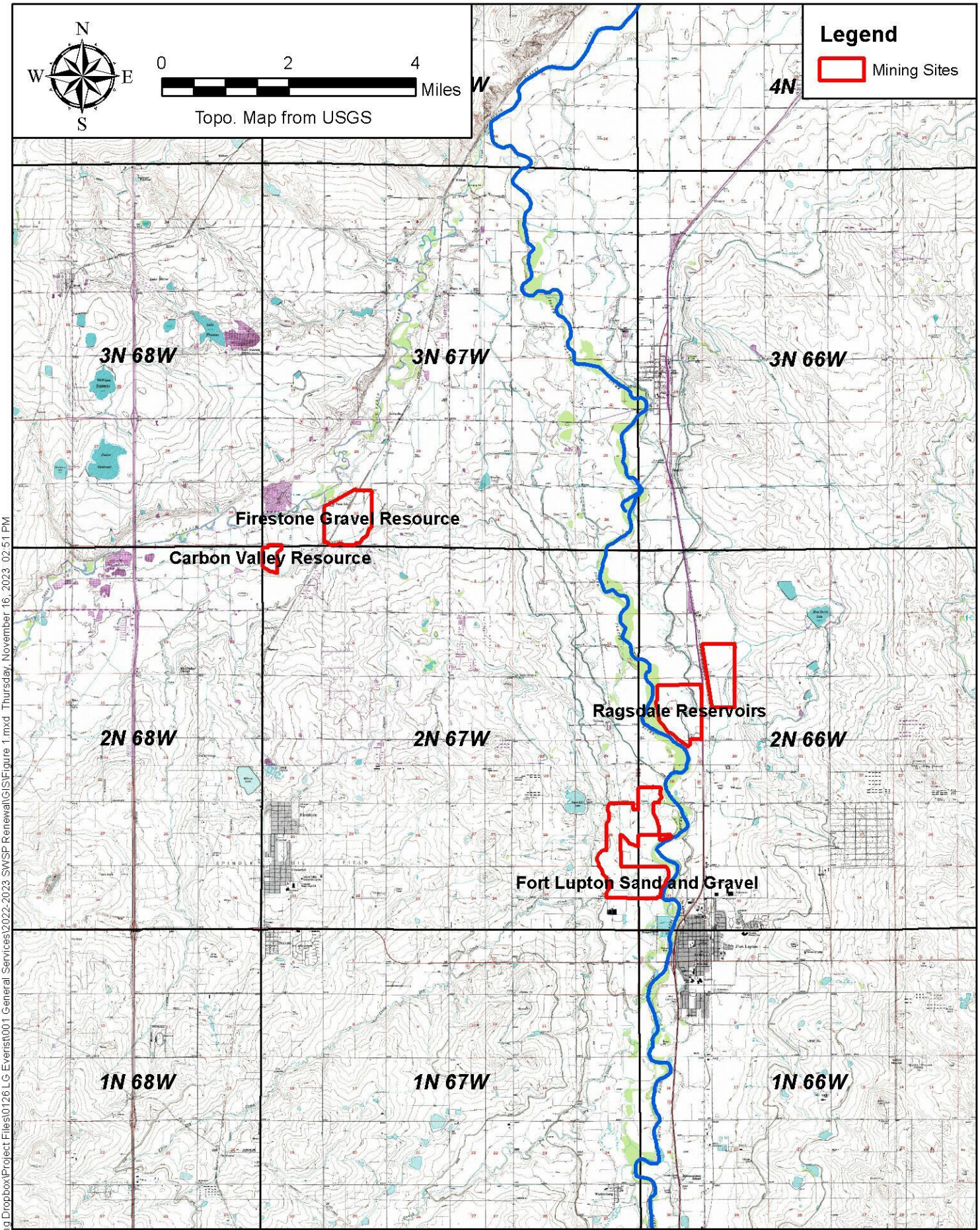
Acknowledged before me this 6th day of June, 2024, by Brandon Ostert.

WITNESS my hand and official seal.

My Commission Expires: 12/29/2024

Notary Public

BRANDON WESCOTT OSTERT
NOTARY PUBLIC - STATE OF COLORADO
NOTARY ID 20204045113
MY COMMISSION EXPIRES DEC 29, 2024



C:\Summit Water Eng Dropbox\Project Files\0126 LG Everist\001 General Services\2022-2023 SWSP Renewal\GIS\Figure 1.mxd Thursday, November 16, 2023 02:51 PM

SUMMIT WATER·ENGINEERS·INC

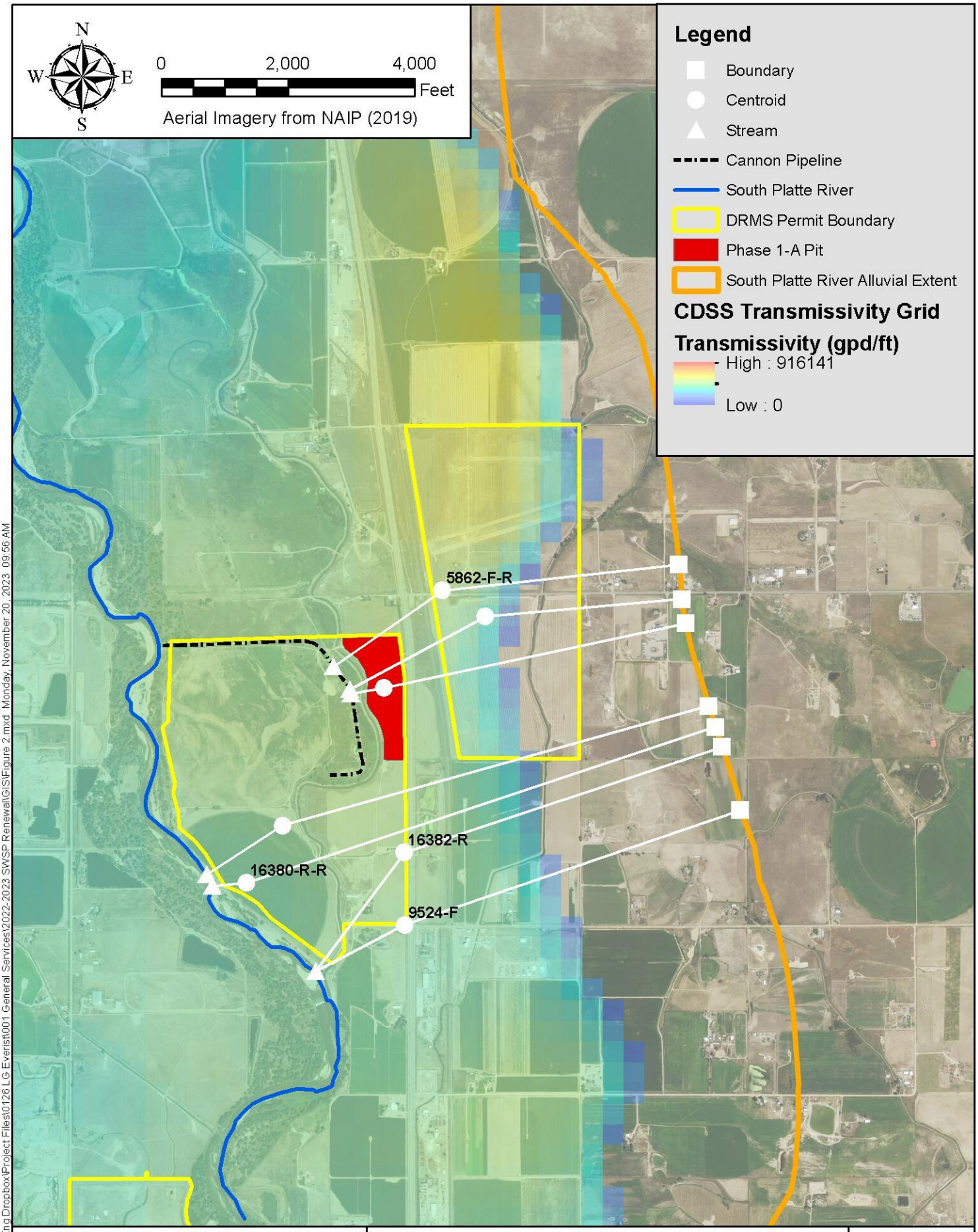
L.G. EVERIST SWSP RENEWAL

Mining Site Vicinity Map

JOB NO: 0126.001.00

SCALE: 1 inch=2 miles

FIGURE: 1



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SUMMIT WATER·ENGINEERS·INC

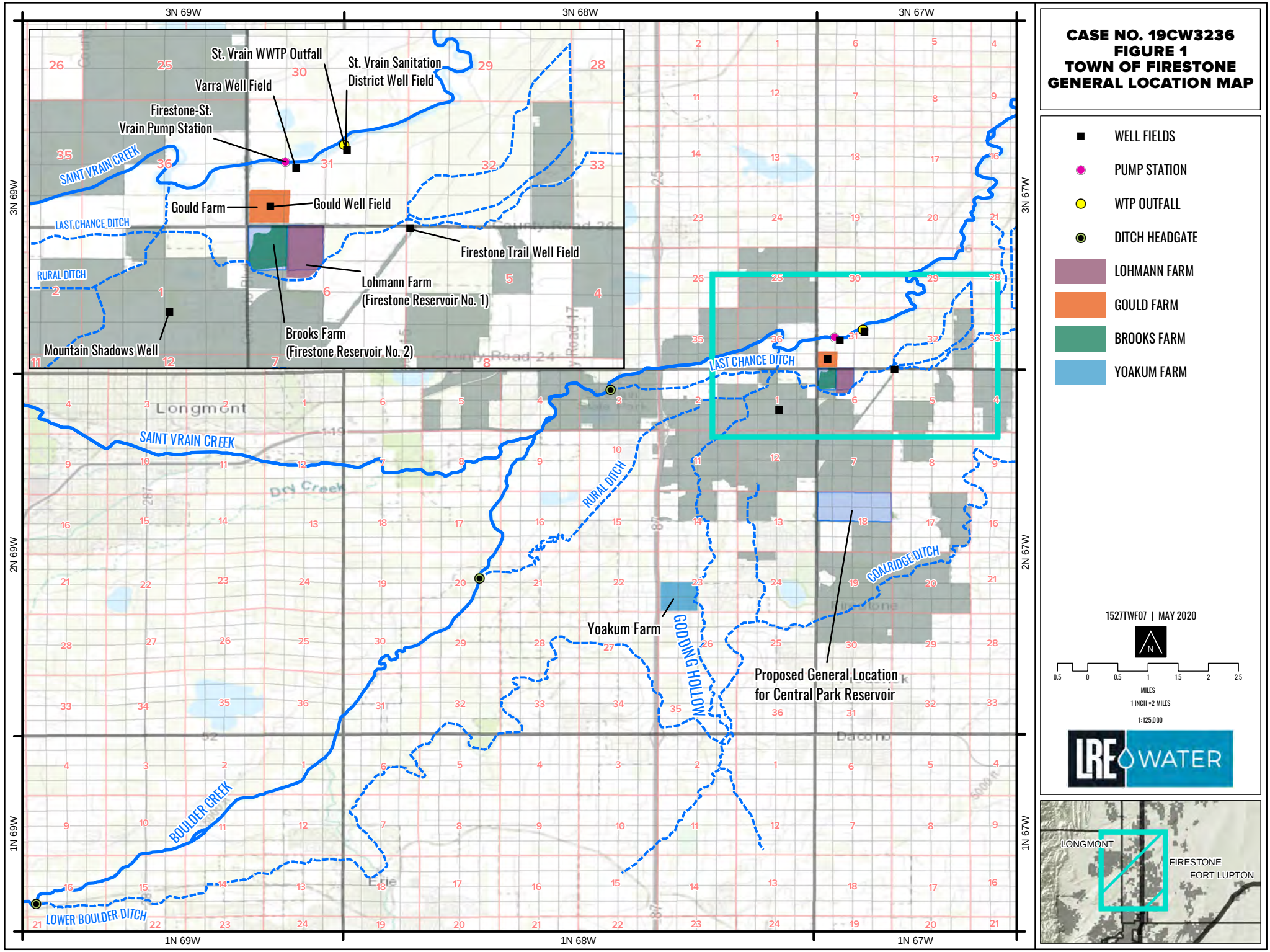
L.G. EVERIST SWSP RENEWAL

Ragsdale Reservoirs AWAS Parameters

JOB NO: 0126.001.00

SCALE: 1 inch=2,000 feet

FIGURE: **2**



COLORADO
Division of Water Resources
Department of Natural Resources

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.

Contents

1. Background and definitions

A thorough description of augmentation plans for well pumping is available in the Beginners Guide to Augmentation Plans for Wells. 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 (https://cdss.colorado.gov/) 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 Administrative Call Standard, 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 CDSS Accounting and Reporting Uploader tool. 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]

Table 1. Accounting Submittal Emails and Phone Number by Division

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	kevin.boyle@state.co.us	719-589-6683	10 days after the end of the reporting month
4 - Gunnison	greg.powers@state.co.us	970-249-6622	10 days after the end of the reporting month
5 - Colorado	dnr_div5acct@state.co.us	970-945-5665	10 days after the end of the reporting month
6 - Yampa/White	brian.romig@state.co.us	970-846-0036	Annually by November 15 or as needed upon request
7 - San Juan/ Dolores	dnr_div7acct@state.co.us	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

*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

[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 example and screenshots section 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 (https://dwr.state.co.us/Tools) 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. Reading[3] [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 reset[4] , 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 Reservoir Accounting Guideline.

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 REST 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 "Diversion Record Spreadsheet User Guide" and utilizes water classes according to the Diversion Records Standard. 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.

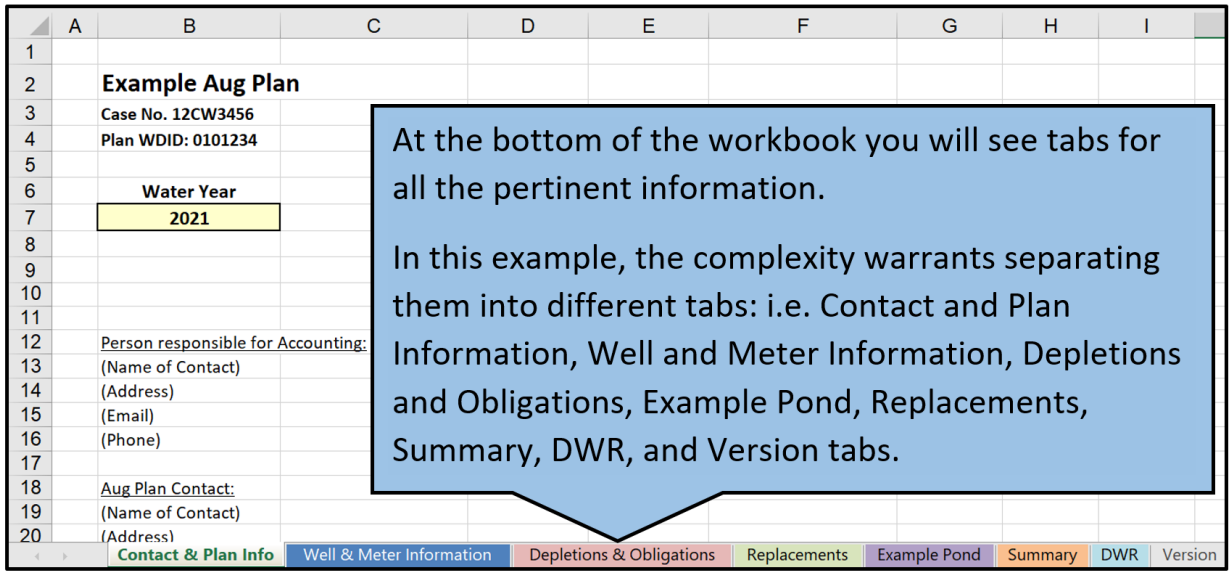
h. When there are multiple stream reaches involved, organize accounting from upstream to downstream.

i. Footnotes should be utilized, as necessary, to describe the basis for formulas, calculations imposed on the raw input data, and column descriptions.

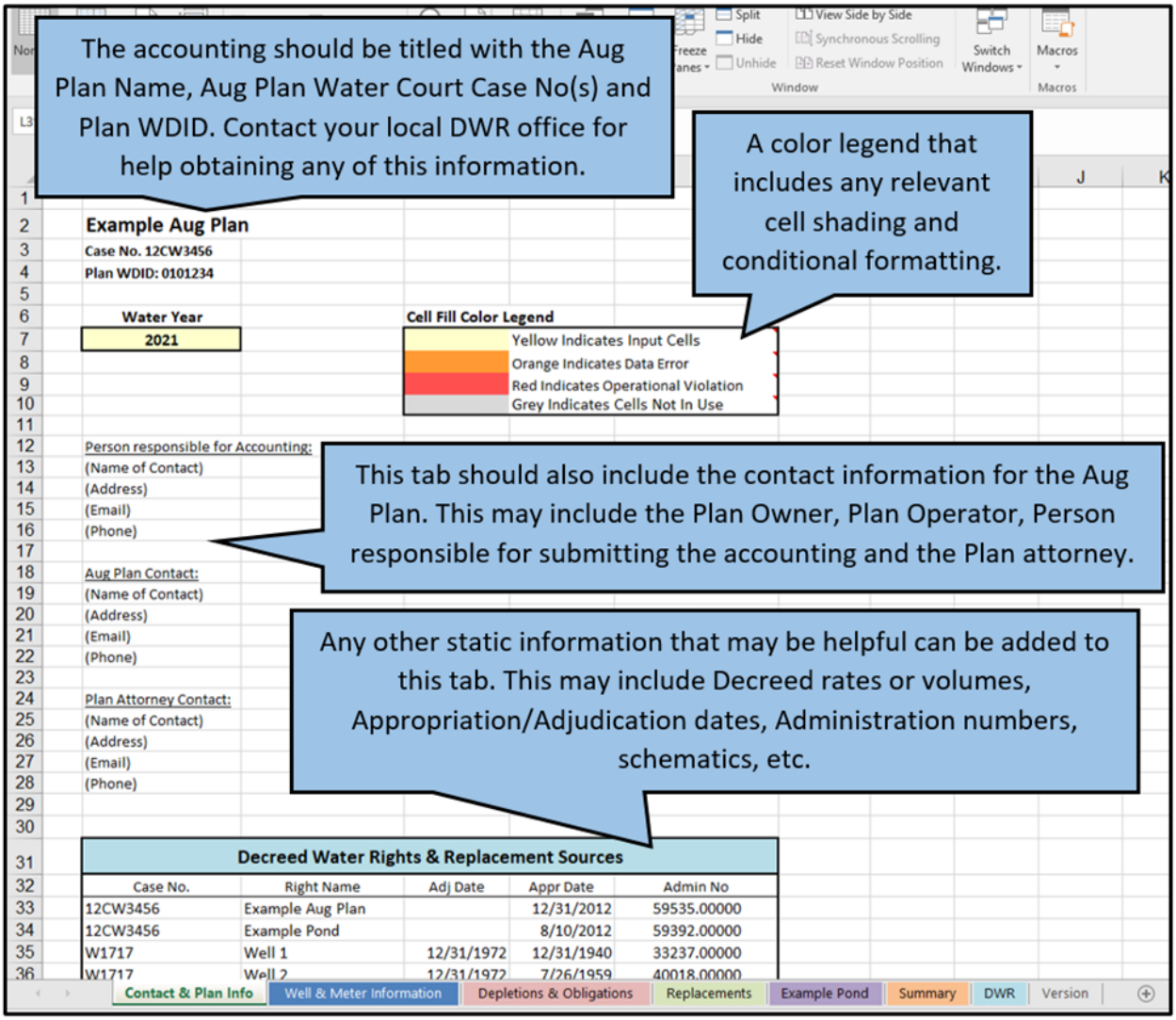
6. Example, Screenshots, and Spreadsheet Templates

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.

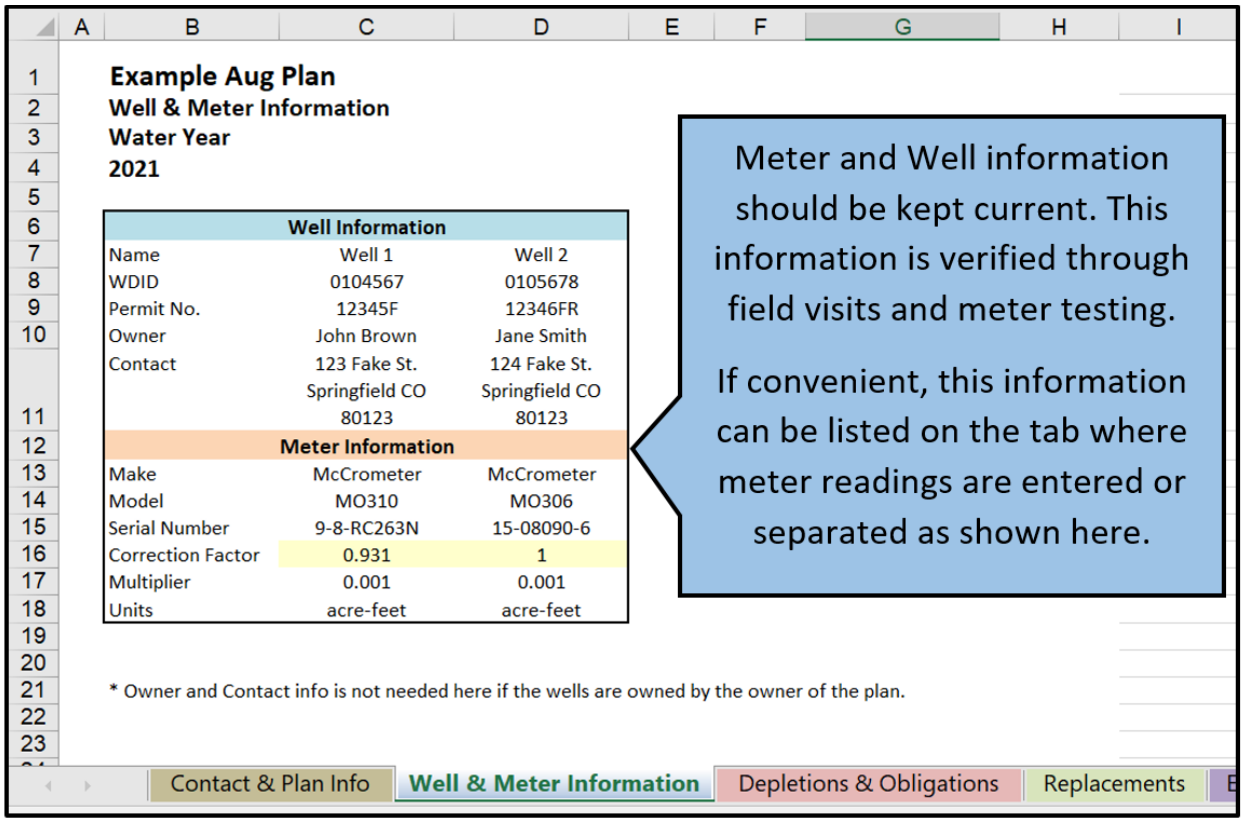
a. (List of relevant tabs)



b. (Contact & Plan Information)



c. (Well & Meter Information)



Example Aug Plan
Well & Meter Information
Water Year
2021

Well Information		
Name	Well 1	Well 2
WDID	0104567	0105678
Permit No.	12345F	12346FR
Owner	John Brown	Jane Smith
Contact	123 Fake St. Springfield CO 80123	124 Fake St. Springfield CO 80123
Meter Information		
Make	McCrometer	McCrometer
Model	MO310	MO306
Serial Number	9-8-RC263N	15-08090-6
Correction Factor	0.931	1
Multiplier	0.001	0.001
Units	acre-feet	acre-feet

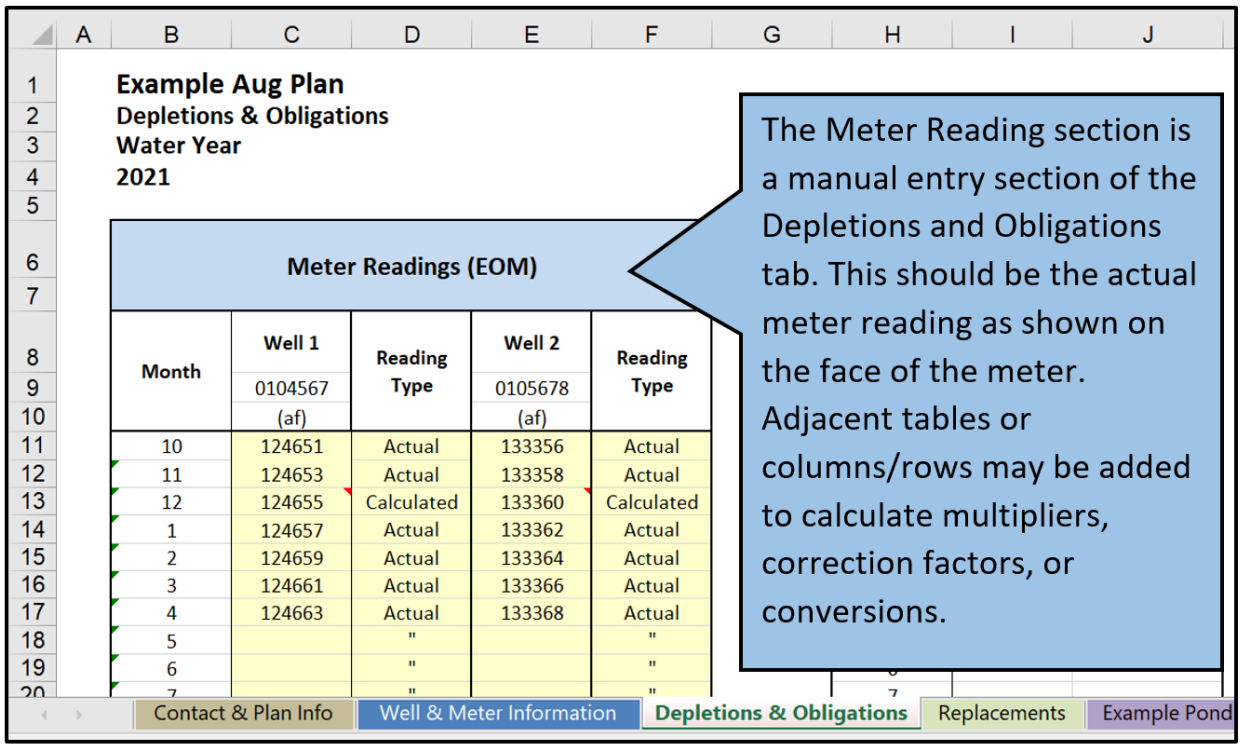
Meter and Well information should be kept current. This information is verified through field visits and meter testing.

If convenient, this information can be listed on the tab where meter readings are entered or separated as shown here.

* Owner and Contact info is not needed here if the wells are owned by the owner of the plan.

Contact & Plan Info | Well & Meter Information | Depletions & Obligations | Replacements

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.



Example Aug Plan
Depletions & Obligations
Water Year
2021

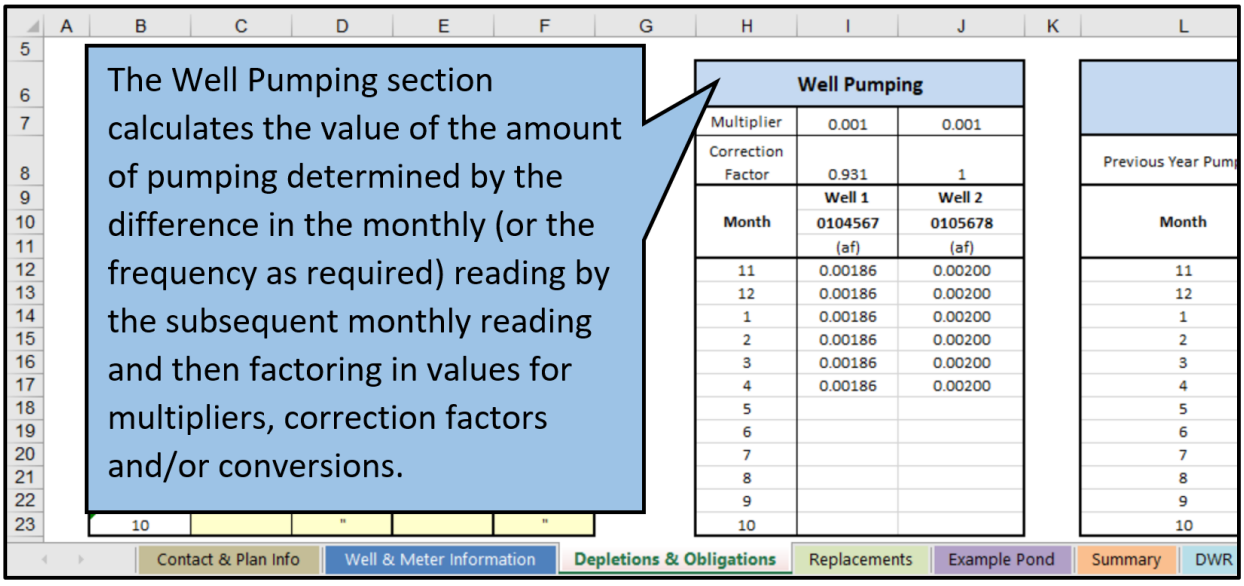
Meter Readings (EOM)

Month	Well 1 0104567 (af)	Reading Type	Well 2 0105678 (af)	Reading Type
10	124651	Actual	133356	Actual
11	124653	Actual	133358	Actual
12	124655	Calculated	133360	Calculated
1	124657	Actual	133362	Actual
2	124659	Actual	133364	Actual
3	124661	Actual	133366	Actual
4	124663	Actual	133368	Actual
5		"		"
6		"		"

The Meter Reading section is a manual entry section of the Depletions and Obligations tab. This should be the actual meter reading as shown on the face of the meter. Adjacent tables or columns/rows may be added to calculate multipliers, correction factors, or conversions.

Contact & Plan Info | Well & Meter Information | Depletions & Obligations | Replacements | Example Pond

e. (Depletions & Obligations)



The Well Pumping section calculates the value of the amount of pumping determined by the difference in the monthly (or the frequency as required) reading by the subsequent monthly reading and then factoring in values for multipliers, correction factors and/or conversions.

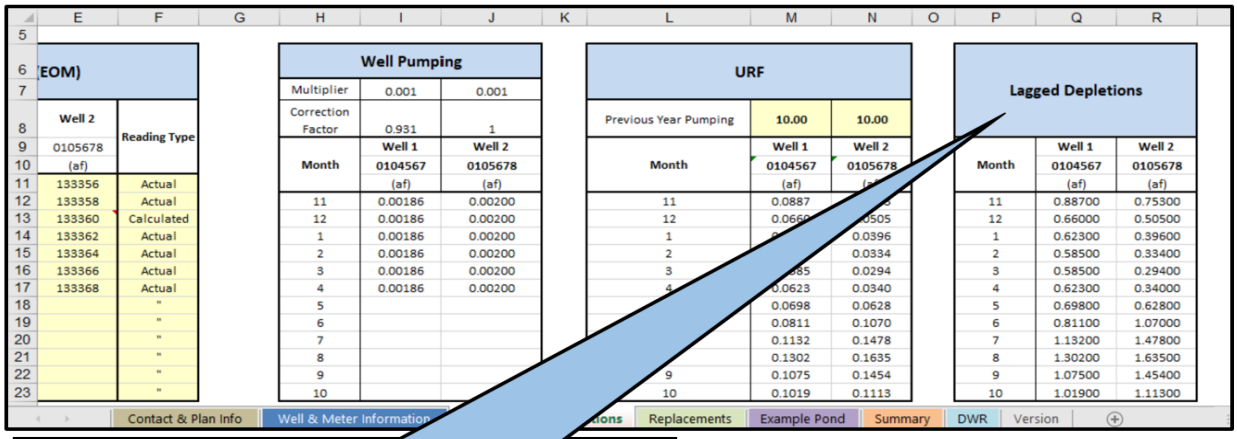
Well Pumping

Multiplier	0.001	0.001
Correction Factor	0.931	1
Month	Well 1 0104567 (af)	Well 2 0105678 (af)
11	0.00186	0.00200
12	0.00186	0.00200
1	0.00186	0.00200
2	0.00186	0.00200
3	0.00186	0.00200
4	0.00186	0.00200
5		
6		
7		
8		
9		
10		

Previous Year Pump
Month
11
12
1
2
3
4
5
6
7
8
9
10

Contact & Plan Info | Well & Meter Information | Depletions & Obligations | Replacements | Example Pond | Summary | DWR

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



(EOM)	
Well 2 0105678 (af)	Reading Type
133356	Actual
133358	Actual
133360	Calculated
133362	Actual
133364	Actual
133366	Actual
133368	Actual

Well Pumping		
Multiplier	0.001	0.001
Correction Factor	0.931	1
Month	Well 1 0104567 (af)	Well 2 0105678 (af)
11	0.00186	0.00200
12	0.00186	0.00200
1	0.00186	0.00200
2	0.00186	0.00200
3	0.00186	0.00200
4	0.00186	0.00200
5		
6		
7		
8		
9		
10		

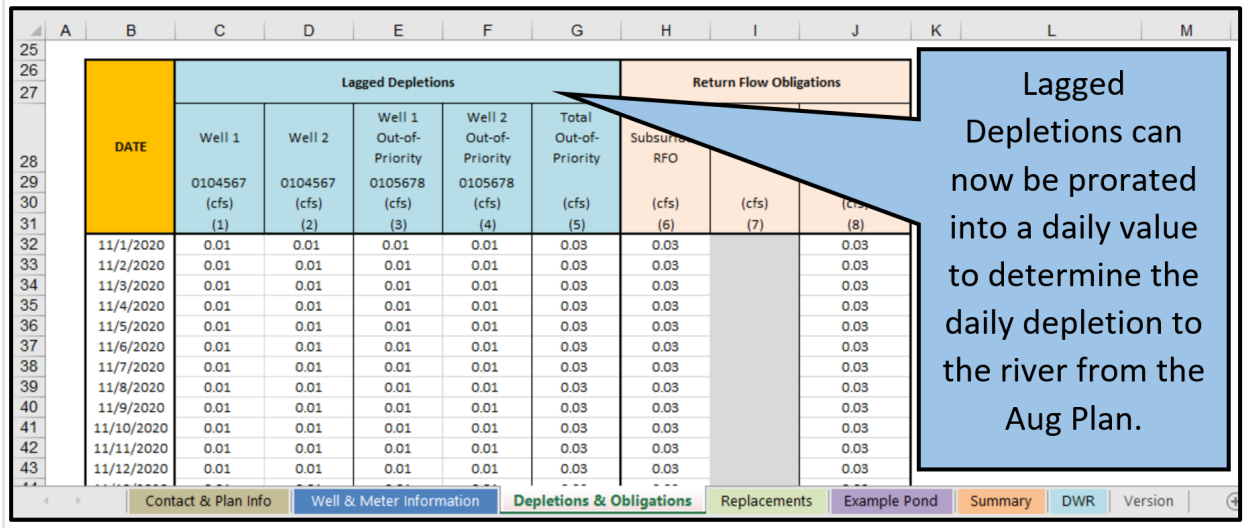
URF		
Previous Year Pumping	10.00	10.00
Month	Well 1 0104567 (af)	Well 2 0105678 (af)
11	0.0887	
12	0.0660	0505
1		0.0396
2		0.0334
3	585	0.0294
4	0.0623	0.0340
	0.0698	0.0628
	0.0811	0.1070
	0.1132	0.1478
	0.1302	0.1635
9	0.1075	0.1454
10	0.1019	0.1113

Lagged Depletions		
Month	Well 1 0104567 (af)	Well 2 0105678 (af)
11	0.88700	0.75300
12	0.66000	0.50500
1	0.62300	0.39600
2	0.58500	0.33400
3	0.58500	0.29400
4	0.62300	0.34000
5	0.69800	0.62800
6	0.81100	1.07000
7	1.13200	1.47800
8	1.30200	1.63500
9	1.07500	1.45400
10	1.01900	1.11300

Contact & Plan Info | Well & Meter Information | ...ions | Replacements | Example Pond | Summary | DWR | Version

Lagged Depletions should be calculated utilizing the Well Pumping data and the lagging method established by the relevant decree or SWSP (Stream depletion Factors or Glover Parameters).

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

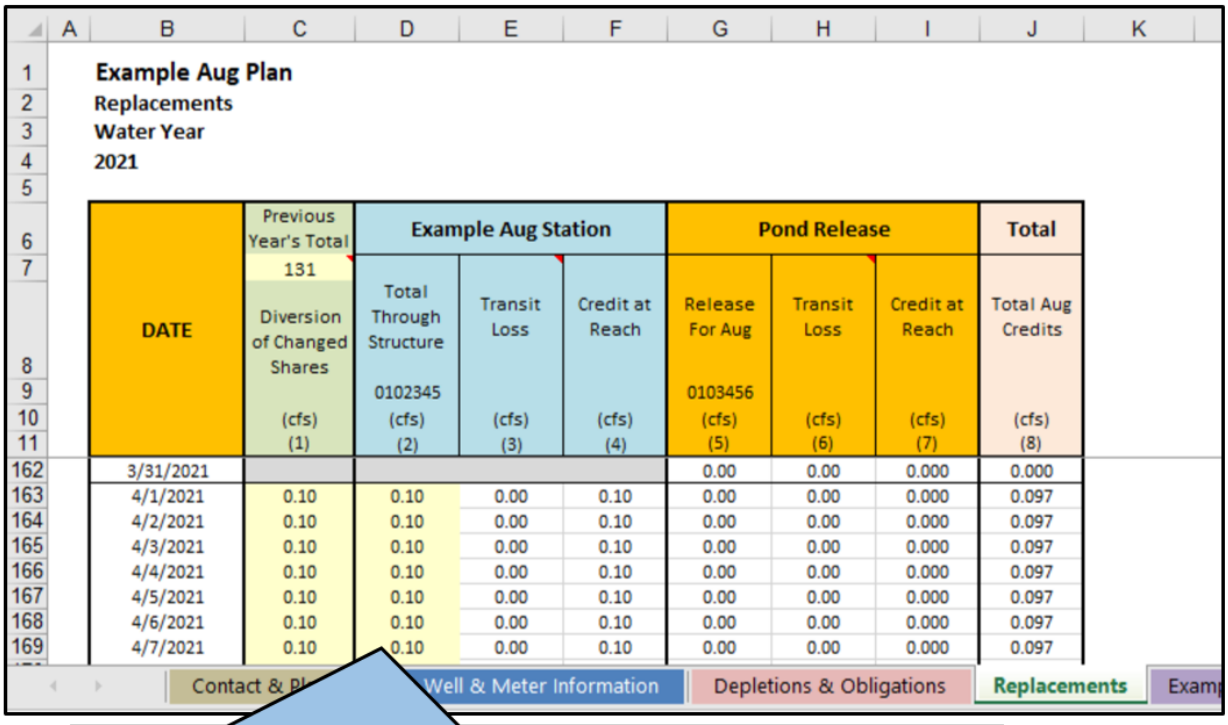


DATE	Lagged Depletions: Well 1 0104567 (cfs) (1)	Well 2 0104567 (cfs) (2)	Well 1 Out-of-Priority 0105678 (cfs) (3)	Well 2 Out-of-Priority 0105678 (cfs) (4)	Total Out-of-Priority (cfs) (5)	Return Flow Obligations: Subsurf... RFO (cfs) (6)	(cfs) (7)	(cfs) (8)
11/1/2020	0.01	0.01	0.01	0.01	0.03	0.03		0.03
11/2/2020	0.01	0.01	0.01	0.01	0.03	0.03		0.03
11/3/2020	0.01	0.01	0.01	0.01	0.03	0.03		0.03
11/4/2020	0.01	0.01	0.01	0.01	0.03	0.03		0.03
11/5/2020	0.01	0.01	0.01	0.01	0.03	0.03		0.03
11/6/2020	0.01	0.01	0.01	0.01	0.03	0.03		0.03
11/7/2020	0.01	0.01	0.01	0.01	0.03	0.03		0.03
11/8/2020	0.01	0.01	0.01	0.01	0.03	0.03		0.03
11/9/2020	0.01	0.01	0.01	0.01	0.03	0.03		0.03
11/10/2020	0.01	0.01	0.01	0.01	0.03	0.03		0.03
11/11/2020	0.01	0.01	0.01	0.01	0.03	0.03		0.03
11/12/2020	0.01	0.01	0.01	0.01	0.03	0.03		0.03

Contact & Plan Info | Well & Meter Information | Depletions & Obligations | Replacements | Example Pond | Summary | DWR | Version

Lagged Depletions can now be prorated into a daily value to determine the daily depletion to the river from the Aug Plan.

h. (Replacements)



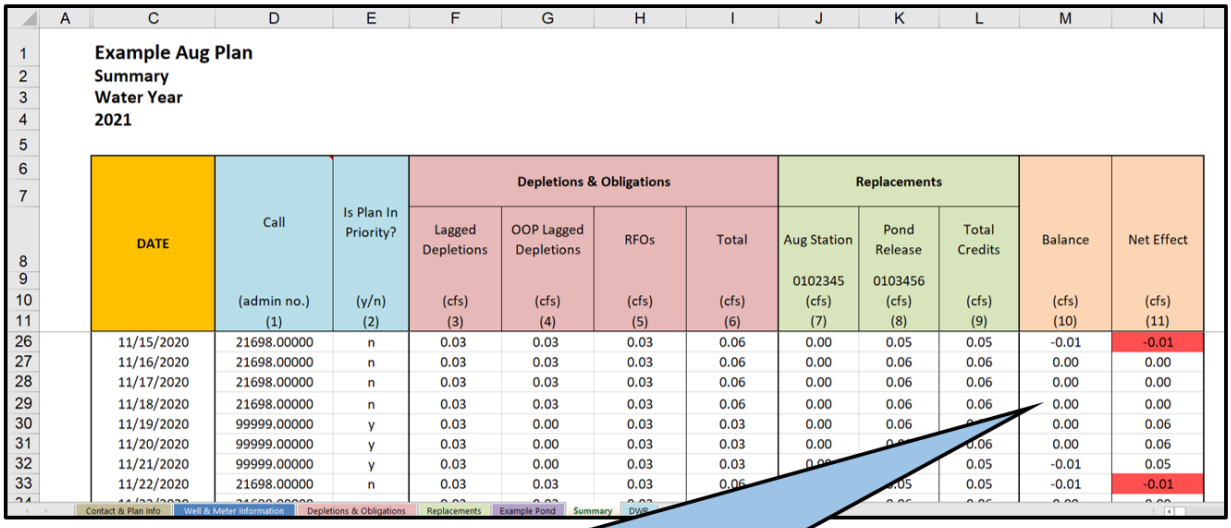
Example Aug Plan
Replacements
Water Year
2021

DATE	Previous Year's Total	Example Aug Station			Pond Release			Total
	131							
	Diversion of Changed Shares	Total Through Structure 0102345	Transit Loss	Credit at Reach	Release For Aug 0103456	Transit Loss	Credit at Reach	Total Aug Credits
	(cfs) (1)	(cfs) (2)	(cfs) (3)	(cfs) (4)	(cfs) (5)	(cfs) (6)	(cfs) (7)	(cfs) (8)
3/31/2021					0.00	0.00	0.000	0.000
4/1/2021	0.10	0.10	0.00	0.10	0.00	0.00	0.000	0.097
4/2/2021	0.10	0.10	0.00	0.10	0.00	0.00	0.000	0.097
4/3/2021	0.10	0.10	0.00	0.10	0.00	0.00	0.000	0.097
4/4/2021	0.10	0.10	0.00	0.10	0.00	0.00	0.000	0.097
4/5/2021	0.10	0.10	0.00	0.10	0.00	0.00	0.000	0.097
4/6/2021	0.10	0.10	0.00	0.10	0.00	0.00	0.000	0.097
4/7/2021	0.10	0.10	0.00	0.10	0.00	0.00	0.000	0.097

Contact & Pl... | Well & Meter Information | Depletions & Obligations | Replacements | Exam...

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



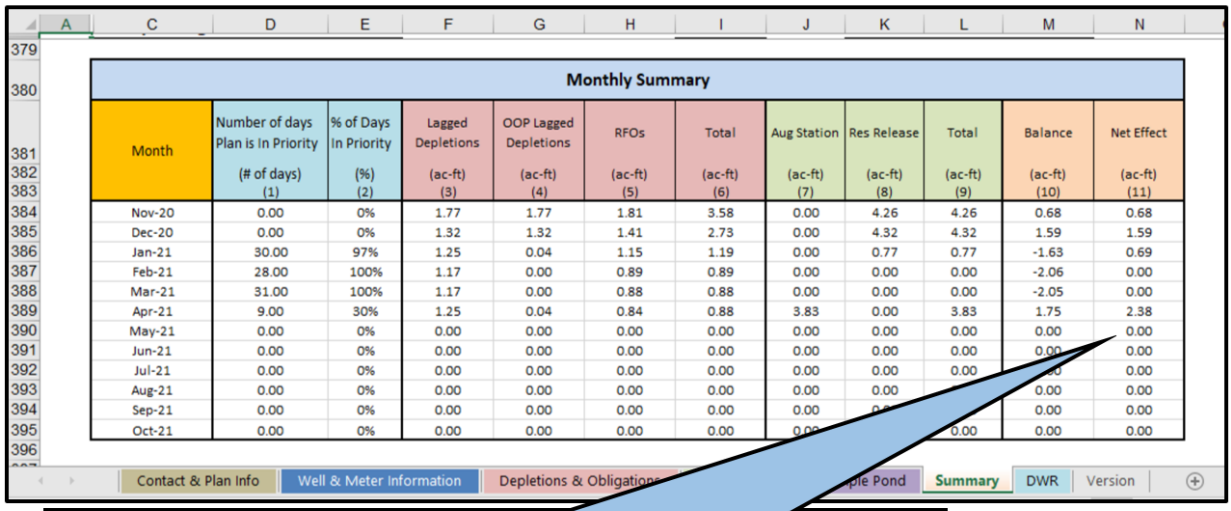
Example Aug Plan
Summary
Water Year
2021

DATE	Call (admin no.) (1)	Is Plan In Priority? (y/n) (2)	Depletions & Obligations: Lagged Depletions (cfs) (3)	Depletions & Obligations: OOP Lagged Depletions (cfs) (4)	Depletions & Obligations: RFOs (cfs) (5)	Depletions & Obligations: Total (cfs) (6)	Replacements: Aug Station 0102345 (cfs) (7)	Replacements: Pond Release 0103456 (cfs) (8)	Replacements: Total Credits (cfs) (9)	Balance (cfs) (10)	Net Effect (cfs) (11)
11/15/2020	21698.00000	n	0.03	0.03	0.03	0.06	0.00	0.05	0.05	-0.01	-0.01
11/16/2020	21698.00000	n	0.03	0.03	0.03	0.06	0.00	0.06	0.06	0.00	0.00
11/17/2020	21698.00000	n	0.03	0.03	0.03	0.06	0.00	0.06	0.06	0.00	0.00
11/18/2020	21698.00000	n	0.03	0.03	0.03	0.06	0.00	0.06	0.06	0.00	0.00
11/19/2020	99999.00000	y	0.03	0.00	0.03	0.03	0.00	0.06	[illegible]	0.00	0.06
11/20/2020	99999.00000	y	0.03	0.00	0.03	0.03	0.00	[illegible]	0.06	0.00	0.06
11/21/2020	99999.00000	y	0.03	0.00	0.03	0.03	[illegible]	[illegible]	0.05	-0.01	0.05
11/22/2020	21698.00000	n	0.03	0.03	0.03	0.06	[illegible]	[illegible]	0.05	-0.01	-0.01

Contact & Plan Info | Well & Meter Information | Depletions & Obligations | Replacements | Example Pond | Summary | DWR

The Balance column is the balance of Replacements and actual Depletions/Obligations regardless of whether the plan is in or out of priority. It is calculated by subtracting Depletions and Obligations from Replacements.

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



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	[illegible]	0.00
Aug-21	0.00	0%	0.00	0.00	0.00	0.00	0.00	0.00	[illegible]	0.00	0.00
Sep-21	0.00	0%	0.00	0.00	0.00	0.00	0.00	[illegible]	[illegible]	0.00	0.00
Oct-21	0.00	0%	0.00	0.00	0.00	0.00	[illegible]	[illegible]	0.00	0.00	0.00

Contact & Plan Info | Well & Meter Information | Depletions & Obligations | [illegible]ple Pond | Summary | DWR | Version

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.

ADMINISTRATION PROTOCOL
Use Of Replacement Sources Not Specifically Identified In An SWSP Or Augmentation Plan
Division One – South Platte River

This protocol addresses the minimum standards required for use of a source of replacement water not specifically described in an SWSP or augmentation plan.

- Request to the Division Engineer and Water Commissioner must be in writing and must include:
    - the augmentation plan or SWSP provision in the purchasers plan that allows an unnamed source to be added to the plan for credit
    - the decree provision or SWSP provision in the sellers plan that allows water to be sold for use in the purchasers plan
    - the annual and monthly amount of water available from the water right to be used for replacement
    - the location at which the water will be delivered to the stream
    - a lease agreement between the seller and purchaser of the replacement water
- Applicant shall have written approval from the Division Engineer or Water Commissioner before an unnamed source is added to an augmentation plan or SWSP.
- Applicant must comply with the Augmentation Plan Accounting Protocol and, if appropriate, the Delivery of Water Protocol.

This protocol is subordinate to any decreed language addressing specific situations.