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Dry Year WAA Analysis
Pickett Road Wine Company Major
Modification
P19-00172-MOD

From: mikesherwood@sonic.net
To: [Hawkes, Trevor](#)
Cc: "[Jon Webb](#)"; [Matt O'Connor](#)
Subject: P19-00172-MOD Kelly Fleming Pickett Rd. Winery Dry Year Water Balance
Date: Wednesday, May 19, 2021 3:51:10 PM
Attachments: [image001.png](#)
[image002.png](#)

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Trevor-

As we discussed, below is a summary of the water balance calculations for the Average (WY 2010) and Dry (WY 2014) conditions extracted from the Soil Water Balance (SWB) model results.

The second table shows the comparison of proposed water use to recharge estimates for Average and Dry years.

	2010 Average Year		2014 Dry Year	
	inches	% of precip	inches	% of precip
Precipitation	43.6	-	22.9	-
AET	22.6	52%	16.7	73%
Runoff	10.2	23%	6.3	28%
Δ Soil Moisture	-0.6	-1%	-3.5	-15%
Recharge	11.4	26%	3.5	15%

Domain	Total Proposed Demand (ac-ft/yr)	Average Water Year (2010)			Dry Water Year (2014)		
		Recharge (ac-ft/yr)	Recharge Surplus (ac-ft/yr)	Demand as % of Recharge	Recharge (ac-ft/yr)	Recharge Surplus (ac-ft/yr)	Demand as % of Recharge
Project Recharge Area	1.7	172.1	170.4	1%	52.4	50.6	3%
Portion of Project Parcel within Recharge Area	1.7	19.7	17.9	9%	6.0	4.3	29%

Please let me know if you have any further questions.

Thank you,

Mike

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