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Cultivation Operations Plan Addendum

Part 1
Rainwater Capture Analysis Addendum:
Water for cannabis irrigation will be augmented by a rainwater catchment system, in addition a spring diversion that follows forbearance period. The rainwater catchment system will utilize a combination of catchment from greenhouses and generator sheds, and HDPE rainwater catchment tanks.

Surface Area
Rainwater capture surface areas are described in Table A below and total approximately 17,800 square feet. The greenhouses will use training techniques with gutters to capture the water and collect it from the covers. Water from these locations will be used to supplement the HDPE water tanks to reach full capacity.

Rainfall Data[1]
Fifty years of rainfall data between 1970 and 2020 was reviewed and the seven lowest rainfall years were averaged to obtain a mean drought annual rainfall of 35.35 inches.

Catchment Calculation
17,800 SF collection area x 35.35 inches x 0.6234 (Conversion Factor) = 392,262 gallons.

Conclusion
The amount of rainwater available for catchment in low rainfall years exceeds the annual water budget of 138,600 gallons. In combination with the water diversion, the project has adequate water security.

Table A.

Rainwater Capture Volumes By Source	Square Feet
Generator Shed	120
24 HDPE Water Storage Tanks	56.7 x 24 = 1360.8sf
Greenhouses	14960
Drying & Storage Structure	1360
Total Rainwater Catchment Area	17,800

[1] Source: https://prism.oregonstate.edu/explorer/

Part 2

Light Pollution Addendum:

The systems that will be used in place to ensure no light pollution from the mixed light and nursery structures are pulling light deprivation pulling tarps that block all lighting and allow for the greenhouses to be shielded during nighttime hours. All canopy will be covered with these black out tarps during these vegetative times during operations.

Part 3

Irrigation Method

Water for irrigation is utilized through hand watering, drip, and automated irrigation systems in place.