

Santiago, October 17, 2018

Mr. Richard Vattay  
Director  
Water & Soil Ltd.  
Budapest, Hungary

Ref. Truffle Orchard Test

**Dear Richard,**

Please find below results for the Water Retainer treatment test on Evergreen Oak (*Quercus ilex*) plantation mycorrhized with truffle in Chile.

**Executive in Charge:** Mr. Ricardo Ramírez

**Comments:**

A preliminary test was carried out during last summer on 2,5 ha of a 3 years old plantation, considering a control area of 2,5 ha.

Regular irrigation cycle is every 7 days a total of 21 liters/m<sup>2</sup> per day, by microaspersors.

Product dosage was the equivalent of 1 ml/m<sup>2</sup> = 10 liters per ha, applied through the ferti-irrigation system.

**Moisture Control:**

Moisture was controlled on a daily basis using GDOT soil moisture control devices, and the area where the Water Retainer treatment was made did get 50% less irrigation.

**Trees growth:**

Trees growth was the same for both the test and the control area.

**Truffle Production:**

No data for this test is available due to the plantation is still young and there is no production yet.

**Economic benefit:**

The following calculation shows the financial benefit of the Water Retainer treatment:

IRRIGATION COST		
INITIAL DATA	VALUE	UNIT
IRRIGATION SEASON	16	WEEKS
TREES PER HA	410	TREES
IRRIGATION AREA	1,5	M2 PER TREE
IRRIGATION AREA	615	M2 PER HA
TOTAL PLANTATION	50	HA
APPLICATION AREA	3,075	HA
WATER RETAINER DOSAGE	10	LT PER HA
TOTAL LITERS	30,75	LITERS
WATER RETAINER COST PER LITER	12	EUROS
WATER RETAINER TOTAL COST PER SEASON	369	EUROS
IRRIGATION RATE	8	HOURS PER WEEK
LABOUR COST	20	EURO PER DAY
EQUIPMENT MAINTENANCE	1	EURO PER HOUR
FUEL	0,8	EURO PER LITER
FUEL CONSUMPTION	7	LITERS PER HOUR

ITEM	CONTROL VALUE	WITH WATER RETAINER VALUE	UNIT
GENERATOR RENT RATE	265,00	265,00	EURO PER WEEK
RENTING WEEKS	16,00	13,00	WEEKS
GENERATOR RENT COST PER SEASON	4 240,00	3 445,00	EURO
HOURS OF IRRIGATION PER SEASON	128,00	64,00	HOURS
FUEL COST PER SEASON	716,80	358,40	EURO
MAINTENANCE COST PER SEASON	128,00	64,00	EURO
LABOUR DAYS	32,00	16,00	DAYS
LABOUR COST PER SEASON	640,00	320,00	EURO
WATER RETAINER COST PER SEASON	0,00	369,00	EURO
TOTAL COST PER SEASON	5 724,80	4 556,40	EURO
<b>SAVINGS PER SEASON</b>		<b>1 168,40</b>	<b>EURO</b>
<b>% SAVINGS PER SEASON</b>		<b>20,41%</b>	
<b>PROFIT ON WATER RETAINER COST %</b>		<b>317%</b>	

We realized that the Water Retainer treatment had positive effect on the irrigation water and cost savings and resulted same growth of the trees. It means the Water Retainer can be successfully applied on tree nurseries and young plantations.

The financial benefit is significant in comparison both to the yearly irrigation cost and the Water Retainer treatment's cost itself.

Now we intend to execute more test in order to see how truffles growing behave with the Water Retainer treatment on a productive plantation.

Best regards,



**TREETEC CHILE SpA.**  
RUT: 76.514.988-0

Felipe Díaz  
Manager  
Treetec Chile SpA.