



# S2 Fertiliser Trial

Client – Mark Fritz - Calavos

Report compiled

by

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and

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## **1.0 Background**

Bioignite Fertilisers have developed a product called S2. It is based on composted broiler chicken manure and has been infused with microbes that have been scientifically associated with beneficial plant responses. The product is used in both organic (ACO and NOP certifiable input) and conventional farming systems and is a cost effective fertiliser that enhances overall soil health along with providing crop nutrition.

## **2.0 Objective**

A trial was conducted by Bioignite Fertilisers to compare its product S2 to that which is currently used by Mark Fritz (M and J Produce).

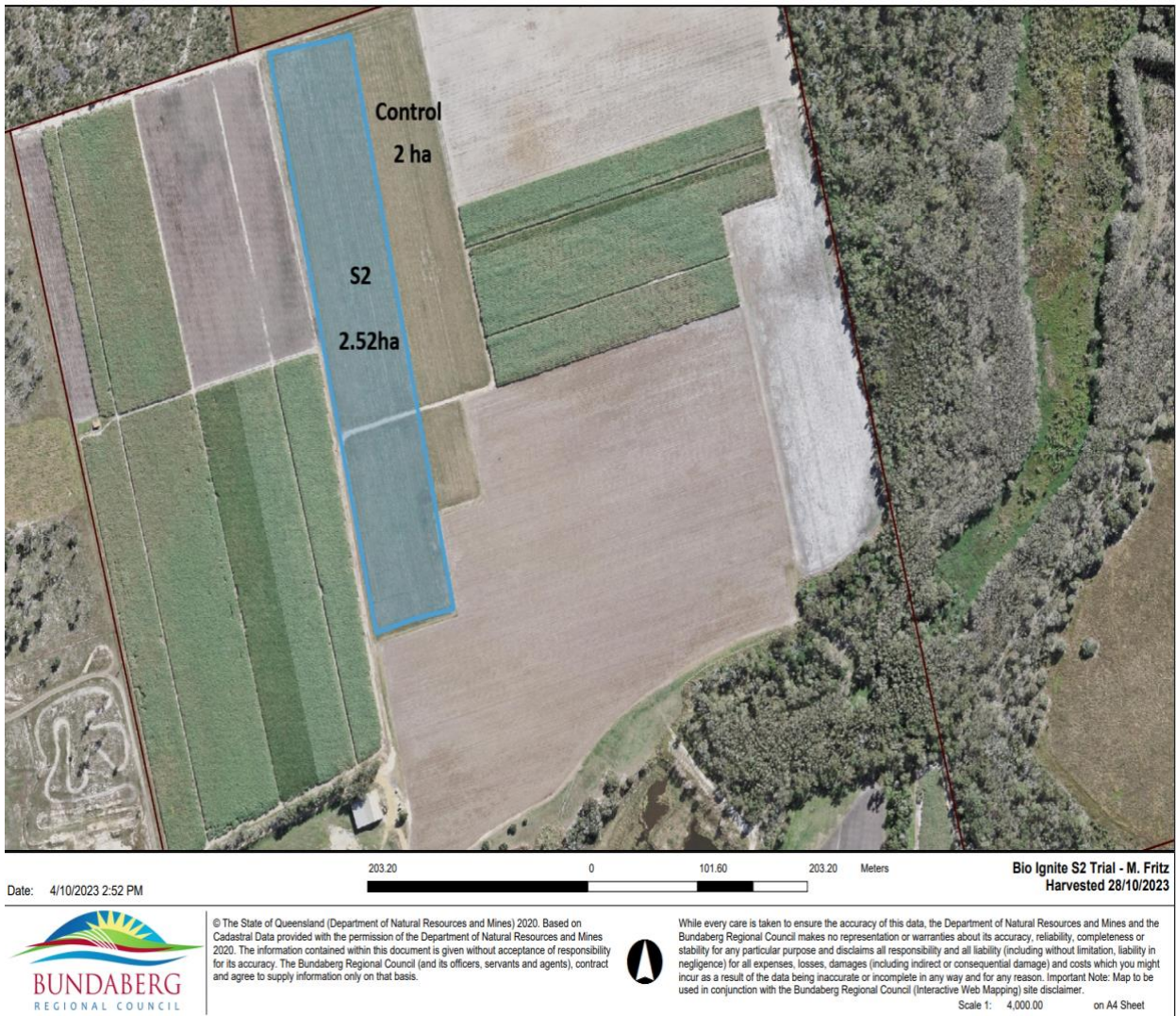
## **3.0 Aim**

The aim of the trial was to compare harvest data from areas treated with Bioignite S2 and the control (fertiliser currently used by Mark Fritz). This will allow Mark the opportunity to assess effectiveness and economics of the S2 compared to current fertilising operations.

## **4.0 Method**

The method used in the trial to assess variability (or lack thereof) between fertiliser products was to establish an area where S2 was applied and compare harvest results to that of the control (usual fertiliser used by Mark).

The trial site was at Fallons Rocks Rd Calavos



Soil Type - Isis

Sugarcane Variety - Q240

Class - Spring fallow plant

#### 4.1 Fertiliser treatments

S2 was applied at a rate of XXXXkg/ha to 2.52ha in Block 11A. The control was applied to the rest of the block.

#### 5.0 Results

Harvest Date 20230928

Control					
Sample	Tonnes	ccs	Area	tc/ha	ts/ha
15947	14.04	15.7			
20110	28.32	16.3			
20111	35.19	16.5			
20179	27.04	16.7			
20182	88.36	15.9			
Total	192.95		2	96.48	15.60
S2					
Sample	Tonnes	ccs	Area	tc/ha	ts/ha
20113	76.8	16.5			
20180	113.82	17.1			
20181	47.61	16.9			
Total	238.23		2.52	94.54	15.94
Block					
Sample	Tonnes	ccs	Area	tc/ha	ts/ha
Total	431.18	16.6	4.52	95.39	15.79

The harvest data shows that cane yield for the S2 was very similar to the control with 94.5 and 96.5tc/ha being returned respectively. The ccs of the S2 area was 0.44 units higher than in the standard and this returned a sugar yield of 15.6ts/ha in the control compared to 15.94ts/ha in the S2 area. This is a .34ts/ha increase in the S2 area compared to the control. At sugar prices of \$850/ts this equates to a beneficial return of \$289/ha.