

## Soil Analysis Report

(Analysed in accordance with BS 3882:2015)

Site Details: NS 105

Ref: 15-02091-Samp. 4300-1

Sample Point: Topsoil 12mm

Date Sampled: 28 August 2015

Date Analysis Started: 15 September 2015

Date Completed: 1 October 2015

**Table 1 : Soil Texture (% m/m)**

Texture	Method	Sample Result	Multipurpose Topsoil Range	Specific Purpose Range				
				Acidic	Calcareous	Low Fertility	Low Fert. Acidic	Low Fert. Calc.
Clay Content (%)	5.05	10		5 - 35				
Silt Content (%)	5.05	20		0 - 65				
Sand Content (%)	5.05	70		30 - 85				
Soil Texture Class	5.05	Sandy loam		Note: see soil texture triangle in BS3882:2015 for allowed soils				

**Table 2 : Soil Organic Matter Content (%)**

Clay percentage	Method	Sample Result	Multipurpose Topsoil Range	Specific Purpose Range				
				Acidic	Calcareous	Low Fertility	Low Fert. Acidic	Low Fert. Calc.
Clay (5 - 20 %)	6.07	3.8	3 - 20	3 - 30	3 - 30	2 - 20	2 - 20	2 - 20
Clay (20 - 35 %)	6.07		5 - 20	5 - 30	5 - 30	2 - 20	2 - 20	2 - 20

**Table 3 : Maximum Coarse Fragment Content (% (m/m))**

Particle size	Sample Result	Multipurpose Topsoil Range	Specific Purpose Range				
			Acidic	Calcareous	Low Fertility	Low Fert. Acidic	Low Fert. Calc.
> 2 mm	18		0 - 30				
> 20 mm	0		0 - 10				
> 50 mm	0		0				

**Table 4 : Chemical Analysis (air-dried, sieved (<2 mm) soil)**

Analyte	Method	Sample Result	Multipurpose Topsoil Range	Specific Purpose Range				
				Acidic	Calcareous	Low Fertility	Low Fert. Acidic	Low Fert. Calc.
Soil pH Value <b>M</b>	5.03	7.71	5.5 - 8.5	3.5 - 5.5	7.5 - 9.0	3.5 - 9.0	3.5 - 5.5	7.5 - 9.0
Calcium Carbonate (%)	6.07	1.2	-	-	> 1	-	-	> 1

**Table 5 : Available Plant Nutrient Content**

Analyte	Method	Sample Result	Multipurpose Topsoil Range	Specific Purpose Range				
				Acidic	Calcareous	Low Fertility	Low Fert. Acidic	Low Fert. Calc.
Nitrogen (% m/m)		0.49	> 0.15	> 0.15	> 0.15	-	-	-
Extractable Phosphate (mg/l)	6.08	< 3.0	16 - 140	16 - 140	16 - 140	< 20	< 20	< 20
Extractable Potassium (mg/l)	6.08	130	121 - 1500	121-1500	121-1500	-	-	-
Extractable Magnesium (mg/l)	6.08	49.8	51 - 600	51 - 600	51 - 600	-	-	-
Carbon:Nitrogen Ratio		12.2	< 20:1	< 20:1	< 20:1	< 35:1	< 35:1	< 35:1
Soil Electrical Conductivity		627.0	3300	-				
Exchangeable Sodium (%) <b>1)</b>	6.08	---	< 15					

1) Need be measured only if the electrical conductivity is greater than 2800 us/cm

**Table 6 : Phytotoxic Contaminants (by soil pH) (mg/kg) analyses carried out on air dried samples**

	Method	Sample	Multipurpose and Specific purpose Topsoils		
Soil pH Range			< 6.0	6.0 - 7.0	> 7.0
Zinc <b>M</b>	6.08	8.8	< 200	< 200	< 300
Copper <b>M</b>	6.08	4.9	< 100	< 135	< 200
Nickel <b>M</b>	6.08	< 14.0	< 60	< 75	< 110

**Table 7 : Additional Physical characteristics**

	Method	Sample
Water Content	6.01	9.1
Total Organic Carbon	6.07	3.2
Visible Contaminants		0

**Comments:** (including details of weeds and other visible contaminants - all comments are beyond the scope of our accreditation) Results marked with an asterisk (\*) are non conforming due to sampling handling time or conditions. Therefore the result may be invalid.

**Table 8 : Additional metals (all results in mg/kg dry weight)**

Analyte	Method	Sample	Soil Guideline Values		
			Residential	Allotment	Commercial
Arsenic <b>M</b>	5.03, 6.08	8.0	32*	43*	640*
Antimony	5.03, 6.08	< 10.0	-	-	-
WS Boron	5.03, 6.08	< 3.0	-	3	-
Cadmium <b>M</b>	5.03, 6.08	1.5	10*	1.8*	230*
Chromium (total) <b>M</b>	5.03, 6.08	8.6	600***	600***	1000***
Cobalt	5.03, 6.08	< 3.0	-	-	-
Copper <b>M</b>	5.03, 6.08	9.9	2330**	524**	71700**
Mercury	5.03, 6.08	< 1.00	1.0*	26*	26*
Molybdenum	5.03, 6.08	< 1.0	-	-	-
Nickel <b>M</b>	5.03, 6.08	< 14.0	130*	230*	1800*
Lead <b>M</b>	5.03, 6.08	60.7	500***	500***	2000***
Selenium	5.03, 6.08	3.0	350*	120*	13000*
Thallium	5.03, 6.08	< 5.0	-	-	-
Vanadium	5.03, 6.08	19.6	75**	18**	3160**
Zinc <b>M</b>	5.03, 6.08	78.8	3750**	618**	66500**

All analytes marked **M** have been analysed under the scope of MCERTS accreditation

**Comments:** (comments are beyond the scope of our accreditation)