Project Name: Salmon Gums survey

Project Code: SGS Site ID: 0001 Observation ID: 1

Agency Name: Agriculture Western Australia

Site Information

Desc. By: Brendan Nicholas Locality:

Date Desc.:23/11/97Elevation:No DataMap Ref.:Rainfall:No Data

Northing/Long.: 6299350 AMG zone: 51 Runoff: No Data

Easting/Lat.: 422546 Datum: AGD84 Drainage: Moderately well drained

<u>Geology</u>

ExposureType:Soil pitConf. Sub. is Parent. Mat.:No DataGeol. Ref.:No DataSubstrate Material:No Data

Landform

Rel/Slope Class: Gently undulating plains <9m 1-3% Pattern Type: Plain

Morph. Type:Simple-slopeRelief:No DataElem. Type:PlainSlope Category:No DataSlope:%Aspect:315 degrees

Surface Soil Condition Loose

<u>Erosion</u> (wind); <u>Soil Classification</u>

Australian Soil Classification:Mapping Unit:N/ACalcic Hypernatric Yellow SodosolPrincipal Profile Form:Dy4.43ASC Confidence:Great Soil Group:Solodized

solonetz

All necessary analytical data are available.

Site Disturbance Cultivation. Rainfed

Vegetation

Surface Coarse Fragments No surface coarse fragments

Profile Morphology

A1 0.01 - 0.16 m Brown (10YR4/3-Moist); Very pale brown (10YR8/3-Moist); , 0-0%; Fine sand; Single grain grade of

structure; Single grain grade of structure; Strong grade of structure, 200-500 mm,

Columnar; Strong grade of structure, 100-200 mm, Prismatic; Moderately moist; Loose consistence; Clear,

Smooth change

to -

A2e 0.16 - 0.19 m Moderately moist; Very pale brown (10YR8/3-Moist); , 0-0%; Fine sand; Single grain grade of structure;

Very weak consistence; Clear, Tongued change to -

B11t 0.19 - 0.3 m

mm, Columnar;

(2.5YR2.5/3-Moist); , 0-0%; Fine sandy light clay; Strong grade of structure, 100-200

Dry; Strong consistence; Common (10 - 20 %), Calcareous, , Nodules; Gradual, Smooth

change to -

B22tk 0.3 - 0.63 m

200 mm,

Olive grey (5Y5/2-Moist); , 0-0%; Silty light medium clay; Strong grade of structure, 100-

Prismatic; Dry; Very firm consistence; Common (10 - 20 %), Calcareous, Coarse (6 - 20

mm), Nodules;

Gradual, Smooth change to -

B23k 0.63 - 0.95 m 200 mm.

Pale olive (5Y6/3-Moist); , 0-0%; Silty light medium clay; Strong grade of structure, 100-

Prismatic; Strong grade of structure, 20-50 mm, Angular blocky; Dry; Very firm

consistence; Very many

(50 - 100 %), Calcareous, Coarse (6 - 20 mm), Nodules; Gradual, Smooth change to -

B24k 0.95 - 1.2 m

mm, Prismatic;

Olive grey (5Y5/2-Moist); , 0-0%; Light medium clay; Strong grade of structure, 100-200

Dry; Very firm consistence; Very many (50 - 100 %), Calcareous, Extremely coarse (> 60

mm), Nodules;

Soil matrix is Highly calcareous; Gradual change to -

Morphological Notes

Observation Notes
Site Notes

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Laboratory Test Results:

Depth	рН	1:5 EC	Ex Ca	changeab Mg	ole Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m		5			(+)/kg			%
0 - 0.1	5B 6.3H	7B	2.56H	0.56	0.44	0.36	0.02J		3.92D	
0.1 - 0.12	5.9B 7.1H	8B	2.09A	0.58	0.46	0.34			3.47D	
0.12 - 0.17	7B 8.2H	15B	4.46E	3.48	1.77	1.49		12B	11.2D	12.42
0.17 - 0.32	7.9B 9H	23B	5.25E	5.41	2.96	2.34		16B	15.96D	14.63
0.32 - 0.45	8.1B 9.4H	26B	4.16E	6.41	3.53	4.88		19B	18.98D	25.68
0.44 - 0.75	8.6B 9.7H	44B	2.87E	6.07	3.83	6.25		19B	19.02D	32.89
0.75 - 1	8.6B 9.7H	58B	2.18E	5.06	3.37	7.97		18B	18.58D	44.28

Depth	CaCO3	Organic C Clay	Avail. P	Total P	Total N	Total K	Bulk Density	G۷	Particle CS	Size FS	Analysis Silt
m	%	%	mg/kg	%	%	%	Mg/m3			%	
0 - 0.1 5.4		0.92D		59B	0.047E						2.2
0.1 - 0.12 4.9		0.52D		34B	0.027E						2
0.12 - 0.17 26.8	<2C	0.25D		27B	0.023E						2.7
0.17 - 0.32 36.3	2C	0.2D		28B	0.021E						3.4
0.32 - 0.45 48.3	2C	0.1D		36B	0.016E						4.1
0.44 - 0.75 47.4	3C	0.08D		33B	0.013E						3.6
0.75 - 1 46.4	3C	0.09D		30B	0.012E						3.1

Laboratory Analyses Completed for this profile

12C1 15_NR_BSa 15_NR_CMR 15A1_CA for soluble	Calcium chloride extractable boron - manual colour Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available Exchangeable bases (Ca/Mg ratio) - Not recorded Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
	salts
15A1_CEC 15A1_K	Exchangeable bases (CEC) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
for soluble	
	salts
15A1_MG for soluble	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
ioi solubic	salts
15A1_NA for soluble	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
101 0010010	salts
15C1_CA pretreatment for	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - alcoholic 1M ammonium chloride at pH 8.5,
•	soluble salts
15C1_CEC 15C1_K soluble salts	CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for

15C1_MG soluble salts	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
15C1_NA soluble salts	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
15E1_AL 15E1_CA salts	Exchangeable AI - by compulsive exchange, no pretreatment for soluble salts Exchangeable bases (Ca2+,Mg2+,Na+,K+) by compulsive exchange, no pretreatment for soluble
15E1_K	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts

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15E1 MG Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts 15E1_MN 15E1_NA Exchangeable bases (Mn2+) by compulsive exchange, no pretreatment for soluble salts Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts 15J_BASES Sum of Bases

15L1_a Exchangeable bases Base saturation percentage (BSP) - Auto calculated from available using

Sum of Cations

and measured clay

15N1_a

Exchangeable sodium percentage (ESP) - Auto calculated from available using CEC Exchangeable sodium percentage (ESP) - Auto calculated from available using Sum of Cations 15N1_b

19B_NR Calcium Carbonate (CaCO3) - Not recorded 3_NR Electrical conductivity or soluble salts - Not recorded

4_NR pH of soil - Not recorded

4B_AL_NR Aluminium in 1:5 soil/0.01M calcium chloride extract - method not recorded

4B1 pH of 1:5 soil/0.01M calcium chloride extract - direct

6A1_UC Organic carbon (%) - Uncorrected Walkley and Black method Total nitrogen - semimicro Kjeldahl, steam distillation 7A1 9A3 Total Phosphorus (ppm) - semimicro kjeldahl, automated colour

9H1 Anion storage capacity

P10_1m2m 1000 to 2000u particle size analysis, (method not recorded) P10_20_75 20 to 75u particle size analysis, (method not recorded) P10_75_106 75 to 106u particle size analysis, (method not recorded)

P10_NR_C Clay (%) - Not recorded

P10_NR_Saa Sand (%) - Not recorded arithmetic difference, auto generated

P10_NR_Z Silt (%) - Not recorded

P10106_150 P10150_180 106 to 150u particle size analysis, (method not recorded) 150 to 180u particle size analysis, (method not recorded) 180 to 300u particle size analysis, (method not recorded) P10180_300 P10300_600 300 to 600u particle size analysis, (method not recorded) P106001000 600 to 1000u particle size analysis, (method not recorded)