

Project Name: Salmon Gums survey
Project Code: SGS **Site ID:** 0003 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By:	Brendan Nicholas	Locality:	
Date Desc.:	26/10/95	Elevation:	No Data
Map Ref.:		Rainfall:	No Data
Northing/Long.:	6275100 AMG zone: 51	Runoff:	No Data
Easting/Lat.:	365770 Datum: AGD84	Drainage:	Imperfectly drained

Geology

ExposureType:	Soil pit	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	No Data	Substrate Material:	No Data

Landform

Rel/Slope Class:	Level plain <9m <1%	Pattern Type:	Plain
Morph. Type:	No Data	Relief:	No Data
Elem. Type:	Plain	Slope Category:	No Data
Slope:	%	Aspect:	No Data

Surface Soil Condition Loose

Erosion (wind); (scald) (sheet) (wave) (rill) (mass)
(gully) (stbank) (tunnel)

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Ferric Mesonatric Grey Sodosol		Principal Profile Form:	Dy5.82
ASC Confidence:		Great Soil Group:	N/A
Confidence level not specified			

Site Disturbance Cultivation. Rainfed

Vegetation

Surface Coarse Fragments No surface coarse fragments; No surface coarse fragments

Profile Morphology

Ap	0 - 0.07 m	Very dark greyish brown (10YR3/2-Moist); ; Fine sand; Single grain grade of structure; Sandy (grains prominent) fabric; Dry; Loose consistence; Clear, Smooth change to -
A12	0.07 - 0.15 m	Very dark greyish brown (10YR3/2-Moist); ; Fine sand; Single grain grade of structure; Sandy (grains prominent) fabric; Dry; Loose consistence; Very few (0 - 2 %), Ferruginous, Coarse (6 - 20 mm), Concretions; Clear, Smooth change to -
A11c	0.15 - 0.43 m	Dark greyish brown (10YR4/2-Moist); ; Sand; Single grain grade of structure; Sandy (grains prominent) fabric; Dry; Very weak consistence; Very few (0 - 2 %), Ferruginous, Coarse (6 - 20 mm), Concretions; Gradual, Smooth change to -
A31c	0.43 - 0.63 m	Brown (10YR5/3-Moist); ; Sand; Single grain grade of structure; Sandy (grains prominent) fabric; Dry; Very weak consistence; Few (2 - 10 %), Ferruginous, Coarse (6 - 20 mm), Concretions; Gradual, Smooth change to -
B1c	0.63 - 0.83 m	Light brownish grey (2.5Y6/3-Moist); ; 2.5Y64, 10-20% , 5-15mm, Distinct; Sandy loam; Massive grade of structure; Rough-ped fabric; Dry; Very firm consistence; Few (2 - 10 %), Ferruginous, Coarse (6 - 20 mm), Concretions; Abrupt, Smooth change to -
B21t	0.83 - 1.4 m	Light grey (10YR7/1-Moist); ; 10YR68, 10-20% , 30-mm, Distinct; Sandy clay loam; Massive grade of structure; Dry; Very firm consistence; Very few (0 - 2 %), Ferruginous, Coarse (6 - 20 mm), Concretions; Gradual change to -
B22t	1.4 - 1.8 m	Light grey (10YR7/1-Moist); ; 10YR68, 20-50% , 30-mm, Distinct; Light clay; Massive grade of structure; Smooth-ped fabric; Moderately moist; Very firm consistence; Gradual change to -
B3	1.8 - 2 m	Grey (5Y6/1-Moist); ; 2.5YR48, 10-20% , 30-mm, Prominent; Light medium clay; Massive

grade of
gravelly, 2-6mm,

structure; Smooth-ped fabric; Moderately moist; Very firm consistence; 2-10%, fine
angular, Quartz, coarse fragments;

- m ;

Morphological Notes

B22t

Clay cutans present

B3

Clay cutans present

- or weak p

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Laboratory Test Results:

Depth	pH	1:5 EC	Ca	Exchangeable Mg	Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m				Cmol (+)/kg				%
0 - 0.07	4.9B 5.4H	24B	4.96H	1.27	0.28	0.15	0.1J		6.66D	
0.07 - 0.15	4.3B 4.9H	11B	1.17H	0.33	0.16	0.09	0.39J		1.75D	
0.15 - 0.43	4.7B 5.4H	9B	1.02H	0.45	0.18	0.18	0.2J		1.83D	
0.43 - 0.63	5.6B 6.4H	12B	1.7H	1.03	0.2	0.46			3.39D	
0.63 - 0.83	5.9B 6.9H	12B	0.94A	1.23	0.25	0.78			3.2D	
0.83 - 1.03	6.3B 7.1H	38B	1.24A	2.35	0.68	1.76			6.03D	
1.03 - 1.4	7.1B 7.7H	98B	2.16A	5.08	1.12	3.72			12.08D	
1.4 - 1.8	7.4B 7.9H	130B	1.91E	4.05	0.83	3.9		11B	10.69D	35.45
1.8 - 2	7.4B 7.8H	130B	3.12A	10.2	1.09	8.46			22.87D	

Depth	CaCO3	Organic C Clay	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis
m	%	%	mg/kg	%	%	%	Mg/m3	GV CS FS Silt
0 - 0.07		3.7D		250B	0.297E			1.2
1.4								
0.07 - 0.15		1.19D		120B	0.09E			2.3
3.7								
0.15 - 0.43		0.5D		52B	0.041E			1.9
9.4								
0.43 - 0.63		0.36D		36B	0.034E			2.1
13.7								
0.63 - 0.83		0.21D		30B	0.023E			2.2
14.5								
0.83 - 1.03		0.16D		39B	0.02E			3.6
31.5								
1.03 - 1.4		0.09D		32B	0.009E			6.9
25.8								
1.4 - 1.8		0.07D		22B	0.008E			4.5
47.2								
1.8 - 2		0.08D		17B	0.007E			4.7
60.3								

Laboratory Analyses Completed for this profile

15_NR_AL	Aluminium Cation - meq per 100g of soil - Not recorded
15_NR_BSa	Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available
15_NR_CMR	Exchangeable bases (Ca/Mg ratio) - Not recorded
15_NR_MN	Exchangeable bases (Mn++) - meq per 100g of soil - Not recorded
15A1_CA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
for soluble	salts
15A1_CEC	Exchangeable bases (CEC) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts
15A1_K	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
for soluble	salts
15A1_MG	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
for soluble	salts
15A1_NA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment

for soluble

15C1_CA
pretreatment for

15C1_CEC

salts

Exchangeable bases (Ca²⁺,Mg²⁺,Na⁺,K⁺) - alcoholic 1M ammonium chloride at pH 8.5,

soluble salts

CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts

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15C1_K 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	Exchangeable Al - by compulsive exchange, no pretreatment for soluble salts
15E1_CA salts	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) by compulsive exchange, no pretreatment for soluble
15E1_K	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
15E1_MG	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
15E1_MN	Exchangeable bases (Mn ²⁺) by compulsive exchange, no pretreatment for soluble salts
15E1_NA	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
15J_BASES	Sum of Bases
15L1_a Sum of Cations	Exchangeable bases Base saturation percentage (BSP) - Auto calculated from available using
	and measured clay
15N1_a	Exchangeable sodium percentage (ESP) - Auto calculated from available using CEC
15N1_b	Exchangeable sodium percentage (ESP) - Auto calculated from available using Sum of Cations
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
7A1	Total nitrogen - semimicro Kjeldahl, steam distillation
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	106 to 150u particle size analysis, (method not recorded)
P10150_180	150 to 180u particle size analysis, (method not recorded)
P10180_300	180 to 300u particle size analysis, (method not recorded)
P10300_600	300 to 600u particle size analysis, (method not recorded)
P106001000	600 to 1000u particle size analysis, (method not recorded)