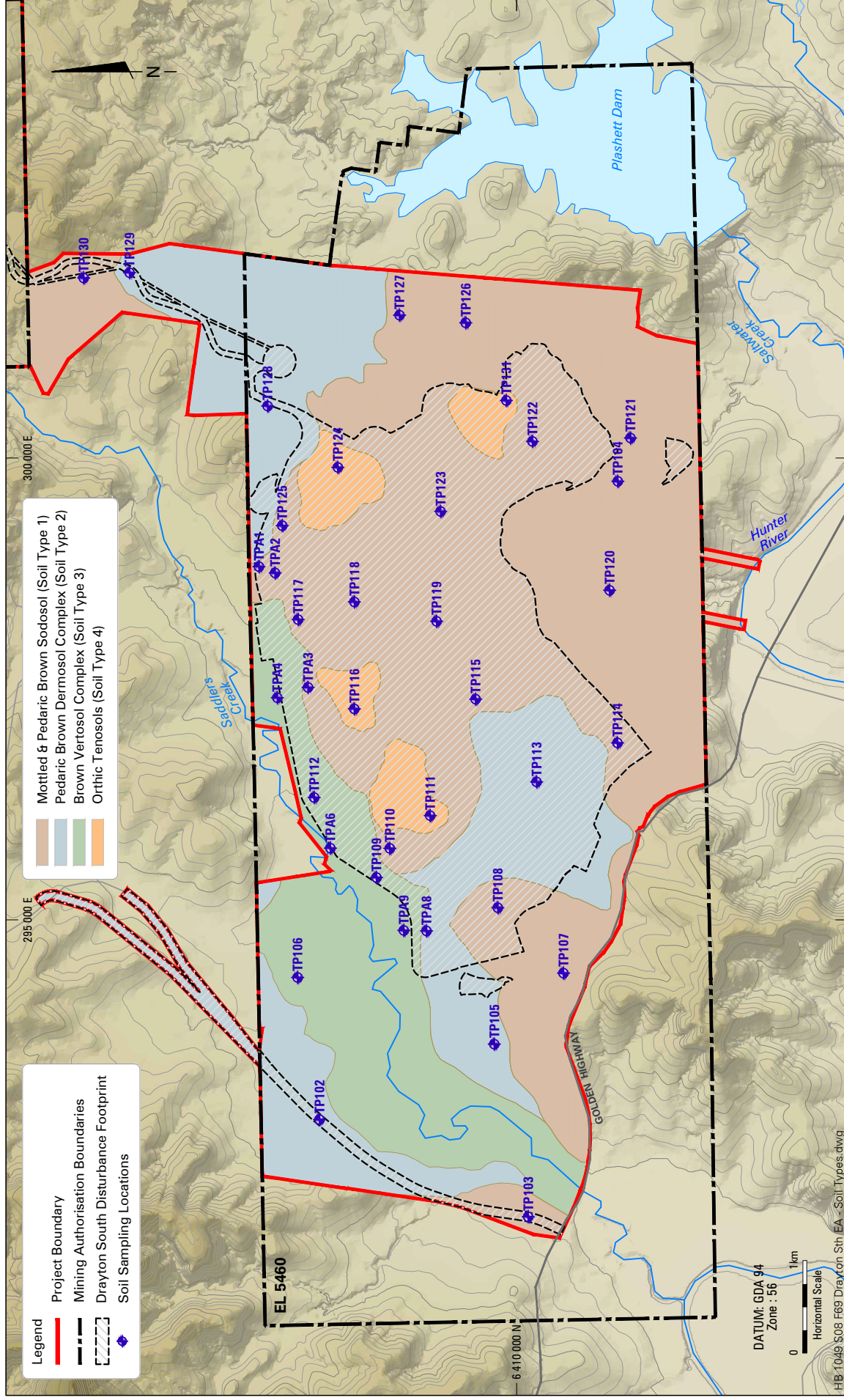


APPENDIX H

Soil Survey Field and Laboratory Results

Soil Survey Profiles



DRAYTON SOUTH COAL PROJECT

Soil Types

FIGURE 1

Soil profiles extracted from within the Drayton South disturbance footprint and the surrounding landscape are illustrated below.

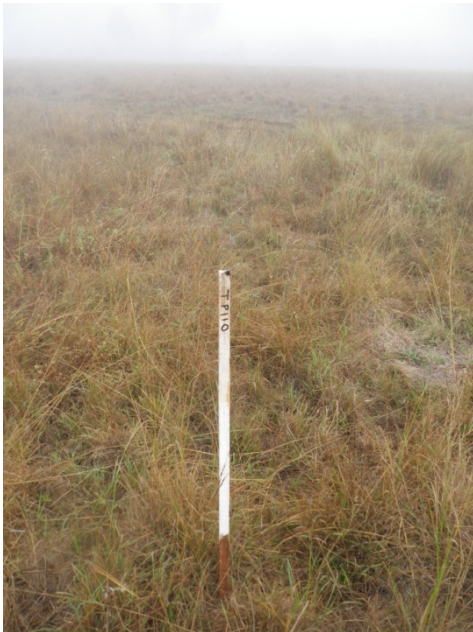
TP108



TP109



TP110



TP111



TP112



TP113



TP114



TP115



TP116



TP117



TP118



TP119



TP122



TP123



TP124



TP125



TP131



TPA1



TPA2



TPA3



TPA4



TPA6



TPA8



Soil Survey Field Results

Table 1
Mottled and Pedaric Brown Sodosol Complex

Test Pit	ASC Inferred Classification	Depth	Munsell Colour	Inferred Soil Horizon	pH	Cl		ECe	Soil Salinity Class		CEC		ESP		Soil Sodicity	Emerson Aggregate Test	
						mg/kg	dS/m		MEQ%	MEQ%	Class	Classification					
TP103	Pedaric Hypernatric Brown Sodosol	0.0-0.1	7.5YR4/4	A1	6.7	30	2.34		Slightly saline		16.6	2.9	Non-sodic				
TP103		0.2-0.3	10YR4/6	A2/B1	7.5	250	1.68		Non-saline								
TP103		0.5-0.6			B1						20.5	37.1	Strongly sodic	1	Slakes Complete dispersion		
TP103		0.9-1.0	5YR4/6		B2												
TP103		1.8-1.9	7.5YR4/6		B2												
TP104	Pedaric Brown Sodosol	0.0-0.2	10YR2/2	A1	5.6	26	2.38		Slightly saline		18.5	0.4	Non-sodic				
TP104		0.3-0.4	10YR3/4	A2	6.6	14	1.89		Non-saline		21.0	1.4	Non-sodic				
TP104		0.6-0.8	10YR5/6	B2	7.7	29	1.12		Non-saline		20.7	2.6	Non-sodic	4	Slakes No dispersion		
TP104		1.0-1.2	2.5Y3/2	C													
TP104		1.5-1.6	2.5Y3/2	C													
TP107	Pedaric Subnatric Brown Sodosol	0.0-0.1	10YR2/2	A1	6.3	24	1.17		Non-saline								
TP107		0.3-0.4		B1	8.5	73	2.32		Moderately saline		22.9	8.5	Marginally sodic to sodic	4	Slakes No dispersion		
TP107		0.7-0.8	10YR3/1	B2													
TP107		1.0-1.1	10YR7/2	B2													
TP107		1.4-1.5	2.5YR7/8	C													
TP107	Pedaric Hypernatric Brown Sodosol	1.6-1.7	10YR7/3	C													
TP108		0.0-0.1	10YR3/4	A1	6.4	51	0.6375		Non-saline								
TP108		0.1-0.2	10YR4/3	A2/B1	37	190					12.3	7.3	Sodic				
TP108		0.3-0.4	10YR5/4	B2													
TP108		0.6-0.8		B2	8.5	1020	6.64		Moderately saline		18.2	26.1	Strongly sodic	1	Slakes Complete dispersion		
TP108	Pedaric Subnatric Brown Sodosol	1.0-1.1		B2													
TP108		1.4-1.5	2.5Y6/4	B2													
TP108		1.6-1.7		B3													
TP110		0.0-0.1	5YR3/3	A1	6.6	47	2.34		Slightly saline		18.7	0.3	Non-sodic				
TP110		0.2-0.4	7.5YR3/4	B1	8.5	52	1.44		Non-saline								
TP110	Pedaric Subnatric Brown Sodosol	0.8-1.0		B2						19.1	6.3	Marginally sodic to sodic	4	Slakes No dispersion			

Test Pit	ASC Inferred Classification	Depth	Munsell Colour	Inferred Soil Horizon	pH	Cl mg/kg	ECe dS/m	Soil Salinity Class		CEC MEQ%	ESP MEQ%	Soil Sodicity	Emerson Aggregate Test	
													Class	Classification
TP110	Mottled Subnatric Brown Sodosol	1.8-2.0	10YR7/1	B2										
TP114		0.0-0.1	10YR3/3	A1	5.3	28	1.89	Non-saline	8.1	0.5		Non-sodic		
TP114		0.2-0.3	10YR5/6	B1	7.5	38	1.82	Non-saline	18.7	2.4		Non-sodic		
TP114		0.4-0.5		B2									2	Slakes Some dispersion
TP114		0.6-0.8		B2	9.1	1150	8.55	Very saline	21	13.8		Strongly sodic	4	Slakes No dispersion
TP114		1.0-1.2	2.5Y5/6	B2										
TP114		1.6-1.8	10YR6/6	B3/C										
TP115		0.0-0.1	7.5YR3/4	A1	5.4	40	2.7	Slightly saline	11.6	3.4		Non-sodic		
TP115		0.1-0.2			6.1	195	3.6	Slightly saline	18.6	10.5		Non-sodic		
TP115		0.3-0.4	10YR4/4	A2/B1	8.0	110	1.33	Non-saline						
TP115	Pedaric Subnatric Brown Sodosol	0.4-0.6	10YR7/3	B2										
TP115		0.8-1.0	5YR4/6	B2	8.7	570	4.72	Moderately saline	20.3	14.5		Strongly sodic	1	Slakes Complete dispersion
TP115		1.6-1.7	7.5YR4/6	B2/B3										
TP117		0.0-0.2	10YR3/2	A1	6.7	120	1.28	Non-saline					8	No swelling
TP117		0.2-0.3		B1	7.4	79	2.295	Slightly saline	21.6	2.1		Non-sodic		
TP117		0.4-0.5	10YR3/2	B2	7.8	68	1.14	Non-saline						
TP117		0.6-0.8	10YR4/4	B2										
TP117		1.8-2.0	10YR6/6	B3										
TP118		0.0-0.1	2.5Y4/4	A1	5.5	50	3.36	Slightly saline	5.4	1.7		Non-sodic	8	No swelling
TP118		0.2-0.3	10YR3/3	A2										
TP118	Pedaric Subnatric Brown Sodosol	0.3-0.4	7.5YR4/6	B2										
TP118		0.5-0.7		B2	8.6	100	1.36	Non-saline	15.7	3.3		Non-sodic	4	Slakes No dispersion
TP118		1.3-1.4	10YR6/6	B3/C										
TP119		0.0-0.2	7.5YR3/2	A1	6.5	160	1.68	Non-saline	14.9	1.2		Non-sodic	8	No swelling
TP119	Pedaric Subnatric Brown Sodosol	0.3-0.4	10YR3/3	B2	5.7	43	1.75	Non-saline						
TP119		0.4-0.5		B2										
TP119		0.6-0.8	2.5Y5/4	B2										
TP119		1.4-1.6		C										
TP120		0.0-0.1	7.5YR3/4	A1	6.0	55	0.81	Non-saline						
TP120	Pedaric Subnatric Brown Sodosol	0.2-0.3	5YR4/4	B1	6	30	1.19	Non-saline	6.0	0.3		Non-sodic	7	Swelling

Test Pit	ASC Inferred Classification	Depth	Munsell Colour	Inferred Soil Horizon	pH	Cl		ECe		Soil Salinity Class		CEC	ESP	Soil Sodicity	Emerson Aggregate Test	
						mg/kg		dS/m				MEQ%	MEQ%		Class	Classification
TP120		0.4-0.5		B2	6.3	20		1.44		Non-saline		15.9	0.8	Non-sodic		
TP120		1.2-1.3	7.5YR5/6	B2												
TP120		1.5-1.6		B3												
TP121	Pedaric Subnatric Brown Sodosol	0.0-0.1	7.5YR3/2	A1	5.7	55		2.79		Slightly saline		16.3	0.7	Non-sodic		
TP121		0.2-0.3	7.5YR3/4	A1	6	36		1.87		Non-saline		14.6	0.8	Non-sodic		
TP121		0.4-0.5	10YR3/2	B2	7.3	30		0.78		Non-saline						
TP121		0.9-1.0		B2	8.5	230		2.82		Moderately saline		24.1	8.1	Marginally sodic to sodic	4	Slakes No dispersion
TP121		1.7-1.8	7.5YR3/4	B2								24.4	8.6	Marginally sodic to sodic		
TP122	Pedaric Subnatric Brown Sodosol	0.0-0.1	10YR3/2	A1	5.7	44		3.64		Slightly saline		9.8	0.4	Non-sodic		
TP122		0.2-0.3	7.5YR3/4	B1	7.2	65		1.2		Non-saline						
TP122		0.6-0.7		B2								20.2	2.7	Non-sodic	4	Slakes No dispersion
TP122		1.4-1.5	2.5Y6/4	B3												
TP123		0.0-0.1	7.5YR3/2	A1	5.5	42		2.34		Slightly saline		15	0.5	Non-sodic	8	No swelling
TP123	Pedaric Mesonatric Brown Sodosol	0.2-0.3	5YR4/6	B1								19.4	1.2	Non-sodic		
TP123		0.4-0.5		B2	8.3	110		1.7		Non-saline						
TP123		0.6-0.8	10YR5/4	B2												
TP123		1.4-1.6	10YR5/8	B2											2	Slakes Some dispersion
TP125		0.0-0.1		A1	6.8	66		1.89		Non-saline		21.6	3.5	Non-sodic		
TP125	Pedaric Mesonatric Brown Sodosol	0.1-0.2		B1	6.7	170		3.08		Slightly saline						
TP125		0.2-0.4	7.5YR3/2	B1												
TP125		0.6-0.8		B2								26.7	23.2	Strongly sodic	4	Slakes No dispersion
TP125		1.8-2.0	10YR5/6	B2												
TP126		0.0-0.1	10YR3/2	A1	6	38		3.15		Slightly saline		13.5	0.4	Non-sodic	8	No swelling
TP126	Pedaric Mesonatric Brown Sodosol	0.1-0.3	10YR3/3	A2	6.1	42		3.92		Slightly saline		11.6	0.5	Non-sodic		
TP126		0.4-0.5		B2	7.8	30		0.72		Non-saline						
TP126		0.8-0.9	10YR3/4	B2												
TP127		0.0-0.1	10YR2/2	A1	5.6	29		3.1		Slightly saline		13.7	0.6	Non-sodic		
TP127		0.1-0.2	7.5YR3/2	B1	7.5	170		2.16		Moderately saline						
TP127		0.3-0.4	10YR3/2	B2												

Test Pit	ASC Inferred Classification	Depth	Munsell Colour	Inferred Soil Horizon	pH	Cl		ECe		Soil Salinity Class		CEC	ESP	Soil Sodicity	Emerson Aggregate Test	
						mg/kg		dS/m				MEQ%	MEQ%		Class	Classification
TP127	Mottled Subnatric Brown Sodosol	0.5-0.6		B2	8.5	1380		9.1		Very saline		27	15.7	Strongly sodic	4	Slakes No dispersion
TP127		1.5-1.6	7.5YR4/6	B2												
TP130		0.0-0.1	10YR2/2	A1												
TP130		0.1-0.2		B1	7.0	24		0.595		Non-saline		16.3	3,4969 32515	Non-sodic	8	No slaking No swelling
TP130		0.3-0.4	10YR3/3	B2												
TP130		1.2-1.4	10YR3/3	B2											2	Slakes Some dispersion
TP130		1.7-1.8	10YR3/3	B2												

Table 2
Pedartic Brown Dermosol Complex

Test Pit	ASC Inferred Classification	Depth	Munsell Colour	Inferred Soil Horizon	pH	Soil Salinity Class		CEC MEQ%	ESP MEQ%	Soil Sodicity	Emerson Aggregate Test	
						Cl mg/kg	ECe dS/m				Class Number	Classification
TP102	Pedartic Brown Dermosol	0.0-0.1	10YR4/4	A1	6.2	34	1.445	15.0	0.6	Non-sodic		
TP102		0.2-0.4		A2	7.1	35	1.62	19.2	0.7	Non-sodic		
TP102		0.5-0.6	10YR4/4	B1								
TP102		0.9-1.0		B2	8.2	37	0.88	17.2	1.7	Non-sodic	4	Slakes No dispersion
TP102		1.9-2.0	7.5YR4/6	B2								
TP105	Pedartic Brown Dermosol	0.0-0.1		A1	6.2	14	1.62	5.5	0.5	Non-sodic	8	No swelling
TP105		0.3-0.5		B2	6.5	42	0.48	21.0	1.2	Non-sodic		
TP105		0.6-0.7		B2								
TP105		0.8-0.9		C								
TP113		0.0-0.1	7.5YR3/4	A1	5.6	44	2.34	12.5	0.7	Non-sodic		
TP113	Pedartic Sodic Brown Dermosol	0.2-0.3		B2	8.1	110	1.36	19.9	8.5	Marginally sodic to sodic	2	Slakes Some dispersion
TP113		0.6-0.8	10YR5/6	B2								
TP113		1.0-1.2	10YR5/6	B2								
TP113		1.4-1.6		C								
TP128		0.0-0.1		A1	7.5	46	1.17	11.9	0.5	Non-sodic	8	No slaking No swelling
TP128	Pedartic Sodic Brown Dermosol	0.2-0.3	7.5YR4/4	A2								
TP128		0.4-0.5	10YR6/6	B2	8.8	18	0.9					
TP128		1.4-1.6		B2								
TP129		0.0-0.1	10YR3/2	A1	5	100	4.06	18.7	2.2	Non-sodic	8	
TP129		0.1-0.2	10YR2/2	A1	5.1	125	2.64	20.2	2.3			
TP129	Pedartic Acid Sodic Brown Dermosol	0.3-0.4	10YR3/3	B1								
TP129		0.6-0.7	7.5YR3/4	B2								
TP129		0.9-1.0	7.5YR4/6	B2	4.8	1420	7.35	20	13.0	Strongly sodic		
TP129		1.4-1.6		B2	5.6	660	3.78					

Table 3
Brown Vertosol Complex

Test Pit	ASC Inferred Classification	Depth	Munsell Colour	Inferred Soil Horizon	pH	Cl	ECe dS/m	Soil Salinity Class	CEC MEQ%	ESP MEQ%	Soil Sodicty	Emerson Aggregate Test	
						mg/kg						Class Number	Classification
TP106	Epipedal Brown Vertosol	0.0-0.1	7.5YR3/4	A1	6.6	17	1.08	Non-saline				7	Swelling
TP106		0.2-0.3	7.5YR4/6	B2	7.2	38	0.72	Non-saline					
TP106		0.5-0.6	7.5YR4/6	B2									
TP106		0.8-0.9	7.5YR4/4	B2									
TP106		1.8-1.9	10YR4/3	B2									
TP109	Massive Brown Vertosol	0.0-0.1	10YR4/3	A1	6.2	200	1.2	Non-saline	8.3	0.4	Non-sodic	8	No swelling
TP109		0.2-0.3	10YR4/3	B1	7.1	210	2.21	Slightly saline	20.0	13.3	Sodic		
TP109		0.4-0.5	10YR3/4	B2									
TP109		0.7-0.8		B2	8.4	950	5.22	Moderately saline	23.1	20.3	Strongly sodic	4	Slakes No dispersion
TP109		1.8-1.9	7.5YR4/4	B2									
TP112	Massive Brown Vertosol	0.0-0.1		A1	6.0	160	1.955	Non-saline					
TP112		0.3-0.5	7.5YR3/2	B2	5.5	86	2.24	Slightly saline	22.1	2.1	Non-sodic		
TP112		0.8-1.0	10YR3/6	B2									
TP112		1.8-2.0		B2									

Table 4
Orthic Tenosol Complex

Test Pit	ASC Inferred Classification	Depth	Munsell Colour	Inferred Soil Horizon	pH	Cl	ECe dS/m	Soil Salinity Class	CEC	ESP	Soil Sodicity	Emerson Aggregate Test	
						mg/kg			MEQ%	MEQ%		Class Number	Classification
TP111	Orthic Tenosol	0.0-0.2	10YR3/3	A1	6.3	25	1.62	Non-saline	8.0	1.9	Non-sodic		
TP111		0.3-0.4	10YR5/8	A2									
TP111		0.4-0.5	10YR5/3	B2	8.6	1220	8.24	Very saline	21	19.5	Strongly sodic	2	Slakes
TP111		0.7-0.8		B2									Some dispersion
TP111		1.2-1.3	10YR5/4	B2									
TP111		1.5-1.6	10YR5/4	B2									
TP116	Orthic Tenosol	0.0-0.2	10YR3/2	A1	6.2	660	5	Moderately saline					
TP116		0.4-0.6	10YR4/6	B2	7.1	150	2.43	Slightly saline	17.7	4.2	Non-sodic		
TP116		1.0-2.0	7.5YR4/6	B3/C									
TP116		1.6-1.8	7.5YR4/6	B3/C									
TP124		0.0-0.2	7.5YR3/6	A1	5.3	40	3.64	Slightly saline	8.6	0.6	Non-sodic	7	Swelling
TP124		0.2-0.4	10YR5/6	B1	6.9	52	0.9	Non-saline					
TP124	Orthic Tenosol	0.6-0.8	2.5YR6/4	B2									
TP124		1.0-1.2	10YR5/4	B2									
TP124		1.6-1.8		B3/C									
TP131		0.0-0.2	10YR2/2	A1	5.5	43	4.59	Moderately saline	20.6	0.6	Non-Sodic	8	No swelling
TP131	Orthic Tenosol	0.4-0.5	10YR3/3	B2									
TP131		0.6-0.7		C									

Soil Survey Laboratory Transcripts

SYDNEY ANALYTICAL LABORATORIES

Page 1 of 12

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PO BOX 48
ERMINGTON NSW 2115

Laboratory:
1/4 ABBOTT ROAD
SEVEN HILLS NSW 2147
Telephone: (02) 9838 8903
Fax: (02) 9838 8919
A.C.N. 003 614 695
A.B.N. 81 829 182 852
NATA No: 1884

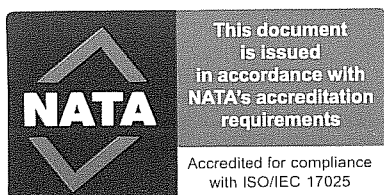
ANALYTICAL REPORT for:

ENVIRONMENTAL & EARTH SCIENCES

PO BOX 380
NORTH SYDNEY 2059

ATTN: JOSHUA BRAY

JOB NO: SAL24537
CLIENT ORDER: 113019
DATE RECEIVED: 19/02/13
DATE COMPLETED: 28/02/13
TYPE OF SAMPLES: SOILS
NO OF SAMPLES: 40



.....
Issued on 04/03/13
Lance Smith
(Chief Chemist)

ANALYTICAL REPORT

**JOB NO: SAL24537
CLIENT ORDER: 113019**

SAMPLES		pH 1:5	COND. uS/cm	Cl mg/kg	CEC MEQ%	Ex.Na MEQ%
1	TP102/0-0.1	6.2	170	34	15.0	0.09
2	TP102/0.3-0.4	7.1	180	35	19.2	0.14
3	TP103/0-0.1	6.7	260	30	16.6	0.48
4	TP104/0-0.2	5.6	280	26	18.5	0.07
5	TP104/0.3-0.5	6.6	210	14	21.0	0.30
6	TP105/0-0.1	6.2	180	14	5.5	0.03
7	TP105/0.4-0.5				21.0	0.26
8	TP106/0-0.1	6.6	120	17		
9	TP107/0-0.1	6.3	130	24		
10	TP108/0.2-0.3	6.3	190	37	12.3	0.90
11	TP109/0-0.1				8.3	0.03
12	TP109/0.3-0.4	7.1	260	210	20.0	2.65
13	TP110/0-0.1	6.6	260	47	18.7	0.06
14	TP111/0-0.1	6.3	180	25	8.0	0.15
15	TP112/0.3-0.4	5.5	320	86	22.1	0.46
16	TP113/0-0.2	5.6	260	44	12.5	0.09
17	TP114/0-0.1	5.3	210	28	8.1	0.04
18	TP114/0.2-0.3	7.5	260	38	18.7	0.45
19	TP115/0-0.1	5.4	270	40	11.6	0.40
20	TP115/0.1-0.2	6.1	400	195	18.6	1.95
21	TP116/0.4-0.5	7.1	270	150	17.7	0.75
22	TP117/0.2-0.3	7.4	270	79	21.6	0.46
23	TP118/0-0.1	5.5	240	50	5.4	0.09
24	TP119/0-0.1	5.7	250	43	14.9	0.18
25	TP120/0.2-0.3	6.0	170	30	6.0	0.02
26	TP120/0.3-0.5	6.3	160	20	15.9	0.13
27	TP121/0-0.1	5.7	310	55	16.3	0.11
28	TP121/0.2-0.3	6.0	220	36	14.6	0.12
29	TP122/0-0.1	5.7	260	44	9.8	0.04
30	TP123/0-0.1	5.6	510	59	15.0	0.08
31	TP123/0.2-0.3	5.5	260	42	19.4	0.24
32	TP124/0-0.1	5.3	260	40	8.6	0.05
33	TP125/0.1-0.2	6.7	440	170	21.6	0.76
34	TP126/0-0.1	6.0	350	38	13.5	0.06
35	TP126/0.1-0.2	6.1	280	42	11.6	0.06
36	TP127/0-0.1	5.6	310	29	13.7	0.08
37	TP129/0.1-0.2	5.1	440	125	20.2	0.47
38	TP129/0-0.1	5.0	580	100	18.7	0.41
39	TP130/0-0.1	5.1	600	77	14.1	0.11
40	TP131/0-0.1	5.5	510	43	20.6	0.12
MDL		0.1	10	5	0.1	0.01
Method Code		WA1	WA2	WA4	S7	S7
Preparation		P5	P5	P5	P5	P5

ANALYTICAL REPORT

**JOB NO: SAL24537
CLIENT ORDER: 113019**

SAMPLES	pH 1:5	COND. uS/cm	Cl mg/kg	CEC MEQ%	Ex.Na MEQ%
DUPLICATES:					
20 TP115/0.1-0.2	6.1	390	185	18.4	2.05
40 TP131/0-0.1	5.5	510	41	21.0	0.14
MDL	0.1	10	5	0.1	0.01
Method Code	WA1	WA2	WA4	S7	S7
Preparation	P5	P5	P5	P5	P5

ANALYTICAL REPORT

**JOB NO: SAL24537
CLIENT ORDER: 113019**

	SAMPLES	Ex.K MEQ%	Ex.Ca MEQ%	Ex.Mg MEQ%	Ex.Mn MEQ%	Ex.Al MEQ%
1	TP102/0-0.1	1.65	8.3	5.6	0.53	<0.1
2	TP102/0.3-0.4	0.67	11.0	8.5	0.17	<0.1
3	TP103/0-0.1	0.83	8.1	8.3	0.32	<0.1
4	TP104/0-0.2	0.39	13.9	4.80	0.46	<0.1
5	TP104/0.3-0.5	0.10	14.8	7.1	0.13	<0.1
6	TP105/0-0.1	0.48	3.60	1.40	0.25	<0.1
7	TP105/0.4-0.5	0.30	11.8	10.4	0.14	<0.1
10	TP108/0.2-0.3	0.36	4.30	7.2	0.12	<0.1
11	TP109/0-0.1	0.71	6.0	1.65	0.39	<0.1
12	TP109/0.3-0.4	0.21	6.9	10.7	0.14	<0.1
13	TP110/0-0.1	1.55	14.0	4.35	0.30	<0.1
14	TP111/0-0.1	0.58	3.95	3.20	0.45	<0.1
15	TP112/0.3-0.4	0.23	15.3	7.6	0.29	<0.1
16	TP113/0-0.2	0.72	7.3	4.90	0.47	<0.1
17	TP114/0-0.1	0.83	4.20	3.15	0.19	<0.1
18	TP114/0.2-0.3	0.41	9.0	9.4	0.04	<0.1
19	TP115/0-0.1	0.64	5.5	5.1	0.61	<0.1
20	TP115/0.1-0.2	0.35	7.1	10.2	0.19	<0.1
21	TP116/0.4-0.5	0.43	10.3	6.9	0.07	<0.1
22	TP117/0.2-0.3	0.39	13.8	8.2	0.04	<0.1
23	TP118/0-0.1	0.51	3.10	2.00	0.11	<0.1
24	TP119/0-0.1	0.76	8.6	5.8	0.50	<0.1
25	TP120/0.2-0.3	0.50	4.20	1.15	0.36	<0.1
26	TP120/0.3-0.5	0.72	12.0	4.05	0.07	<0.1
27	TP121/0-0.1	0.65	11.6	4.00	0.62	<0.1
28	TP121/0.2-0.3	0.27	10.2	4.15	0.46	<0.1
29	TP122/0-0.1	0.94	7.6	1.35	0.47	<0.1
30	TP123/0-0.1	0.82	11.8	3.10	0.30	<0.1
31	TP123/0.2-0.3	0.87	14.7	4.35	0.17	<0.1
32	TP124/0-0.1	1.10	6.2	1.40	0.32	<0.1
33	TP125/0.1-0.2	0.56	10.9	11.1	0.16	<0.1
34	TP126/0-0.1	0.66	10.0	2.80	0.52	<0.1
35	TP126/0.1-0.2	0.59	8.6	3.00	0.43	<0.1
36	TP127/0-0.1	1.15	8.4	4.55	0.31	<0.1
37	TP129/0.1-0.2	0.79	10.6	9.8	0.06	<0.1
38	TP129/0-0.1	1.40	10.0	7.7	0.22	<0.1
39	TP130/0-0.1	0.60	8.8	4.75	0.64	<0.1
40	TP131/0-0.1	0.24	15.7	5.6	0.23	<0.1
DUPLICATES:						
20	TP115/0.1-0.2	0.32	7.4	10.0	0.16	<0.1
MDL						
	Method Code	S7	S7	S7	S7	S7
	Preparation	P5	P5	P5	P5	P5

ANALYTICAL REPORT

JOB NO: SAL24537
CLIENT ORDER: 113019

SAMPLES	Ex. K MEQ%	Ex. Ca MEQ%	Ex. Mg MEQ%	Ex. Mn MEQ%	Ex. Al MEQ%
40 TP131/0-0.1	0.19	16.0	5.7	0.25	<0.1
MDL	0.01	0.01	0.01	0.01	0.1
Method Code	S7	S7	S7	S7	S7
Preparation	P5	P5	P5	P5	P5

ANALYTICAL REPORT

**JOB NO: SAL24537
CLIENT ORDER: 113019**

	SAMPLES	Sol.Na MEQ%	Sol.K MEQ%	Sol.Ca MEQ%	Sol.Mg MEQ%	Sol.Mn MEQ%
1	TP102/0-0.1	0.13	0.52	0.75	0.60	<0.01
2	TP102/0.3-0.4	0.17	0.14	0.95	0.77	<0.01
3	TP103/0-0.1	0.88	0.17	1.00	0.92	<0.01
4	TP104/0-0.2	0.26	0.10	1.75	0.91	<0.01
5	TP104/0.3-0.5	0.38	0.02	1.25	0.64	<0.01
6	TP105/0-0.1	0.14	0.30	1.10	0.58	<0.01
7	TP105/0.4-0.5	0.53	0.05	0.87	0.85	<0.01
10	TP108/0.2-0.3	0.90	0.04	0.53	0.79	<0.01
11	TP109/0-0.1	0.10	0.27	0.84	0.42	<0.01
12	TP109/0.3-0.4	2.50	0.04	0.44	0.58	<0.01
13	TP110/0-0.1	0.16	0.44	1.80	0.74	<0.01
14	TP111/0-0.1	0.67	0.18	0.83	0.64	<0.01
15	TP112/0.3-0.4	0.55	0.06	2.15	1.15	<0.01
16	TP113/0-0.2	0.39	0.28	1.10	0.92	<0.01
17	TP114/0-0.1	0.27	0.37	0.96	1.00	<0.01
18	TP114/0.2-0.3	1.25	0.08	0.78	1.00	<0.01
19	TP115/0-0.1	0.83	0.22	0.95	1.05	<0.01
20	TP115/0.1-0.2	2.35	0.07	0.58	0.86	<0.01
21	TP116/0.4-0.5	1.75	0.05	0.67	0.48	<0.01
22	TP117/0.2-0.3	0.96	0.07	1.30	0.81	<0.01
23	TP118/0-0.1	0.60	0.23	0.96	0.72	<0.01
24	TP119/0-0.1	0.36	0.24	1.25	1.00	<0.01
25	TP120/0.2-0.3	0.27	0.19	1.05	0.34	<0.01
26	TP120/0.3-0.5	0.40	0.15	1.05	0.39	<0.01
27	TP121/0-0.1	0.27	0.18	1.80	0.94	<0.01
28	TP121/0.2-0.3	0.23	0.06	1.35	0.77	<0.01
29	TP122/0-0.1	0.15	0.24	1.75	0.42	<0.01
30	TP123/0-0.1	0.23	0.42	3.10	1.05	<0.01
31	TP123/0.2-0.3	0.22	0.27	2.00	0.66	<0.01
32	TP124/0-0.1	0.24	0.32	1.95	0.53	<0.01
33	TP125/0.1-0.2	2.50	0.10	0.94	0.92	<0.01
34	TP126/0-0.1	0.25	0.31	2.20	1.05	<0.01
35	TP126/0.1-0.2	0.26	0.24	1.75	0.90	<0.01
36	TP127/0-0.1	0.28	0.50	1.60	1.30	<0.01
37	TP129/0.1-0.2	1.40	0.21	1.30	1.35	<0.01
38	TP129/0-0.1	1.15	0.44	2.60	2.30	<0.01
39	TP130/0-0.1	0.59	0.28	2.85	2.45	<0.01
40	TP131/0-0.1	0.40	0.05	3.30	1.60	<0.01
DUPLICATES:						
20	TP115/0.1-0.2	2.15	0.07	0.60	0.90	<0.01
MDL						
Method Code		S7	S7	S7	S7	S7
Preparation		P5	P5	P5	P5	P5

ANALYTICAL REPORT

JOB NO: SAL24537
CLIENT ORDER: 113019

SAMPLES	Sol.Na MEQ%	Sol.K MEQ%	Sol.Ca MEQ%	Sol.Mg MEQ%	Sol.Mn MEQ%
40 TP131/0-0.1	0.36	0.06	3.40	1.45	<0.01
MDL	0.01	0.01	0.01	0.01	0.01
Method Code	S7	S7	S7	S7	S7
Preparation	P5	P5	P5	P5	P5

ANALYTICAL REPORT

JOB NO: SAL24537
CLIENT ORDER: 113019

SAMPLES	Sol.Al MEQ%
1 TP102/0-0.1	<0.01
2 TP102/0.3-0.4	<0.01
3 TP103/0-0.1	<0.01
4 TP104/0-0.2	<0.01
5 TP104/0.3-0.5	<0.01
6 TP105/0-0.1	<0.01
7 TP105/0.4-0.5	<0.01
10 TP108/0.2-0.3	<0.01
11 TP109/0-0.1	<0.01
12 TP109/0.3-0.4	<0.01
13 TP110/0-0.1	<0.01
14 TP111/0-0.1	<0.01
15 TP112/0.3-0.4	<0.01
16 TP113/0-0.2	<0.01
17 TP114/0-0.1	<0.01
18 TP114/0.2-0.3	<0.01
19 TP115/0-0.1	<0.01
20 TP115/0.1-0.2	<0.01
21 TP116/0.4-0.5	<0.01
22 TP117/0.2-0.3	<0.01
23 TP118/0-0.1	<0.01
24 TP119/0-0.1	<0.01
25 TP120/0.2-0.3	<0.01
26 TP120/0.3-0.5	<0.01
27 TP121/0-0.1	<0.01
28 TP121/0.2-0.3	<0.01
29 TP122/0-0.1	<0.01
30 TP123/0-0.1	<0.01
31 TP123/0.2-0.3	<0.01
32 TP124/0-0.1	<0.01
33 TP125/0.1-0.2	<0.01
34 TP126/0-0.1	<0.01
35 TP126/0.1-0.2	<0.01
36 TP127/0-0.1	<0.01
37 TP129/0.1-0.2	<0.01
38 TP129/0-0.1	<0.01
39 TP130/0-0.1	<0.01
40 TP131/0-0.1	<0.01
DUPLICATES:	
20 TP115/0.1-0.2	<0.01

MDL	0.01
Method Code	S7
Preparation	P5

SYDNEY
ANALYTICAL
LABORATORIES

Page 9 of 12

ANALYTICAL REPORT

JOB NO: SAL24537
CLIENT ORDER: 113019

SAMPLES

Sol. Al
MEQ%

40 TP131/0-0.1

<0.01

MDL

0.01

Method Code

S7

Preparation

P5

RESULTS ON DRY BASIS

LABORATORY DUPLICATE REPORT

JOB NO: SAL24537

CLIENT ORDER: 113019

Sample Number	Analyte	Units	MDL	Sample Result	Duplicate Result	%RPD
TP115/0.1-0.2	pH		0.1	6.1	6.1	0
TP131/0-0.1	pH		0.1	5.5	5.5	0
TP115/0.1-0.2	Conductivity	uS/cm	10	400	390	3
TP131/0-0.1	Conductivity	uS/cm	10	510	510	0
TP115/0.1-0.2	Chloride	mg/kg	5	195	185	5
TP131/0-0.1	Chloride	mg/kg	5	43	41	5
TP115/0.1-0.2	CEC	MEQ%	0.1	18.6	18.4	1
TP131/0-0.1	CEC	MEQ%	0.1	20.6	21.0	2
TP115/0.1-0.2	Exchanged Na	MEQ%	0.01	1.95	2.05	5
TP131/0-0.1	Exchanged Na	MEQ%	0.01	0.12	0.14	15
TP115/0.1-0.2	Exchanged K	MEQ%	0.01	0.35	0.32	9
TP131/0-0.1	Exchanged K	MEQ%	0.01	0.24	0.19	23
TP115/0.1-0.2	Exchanged Ca	MEQ%	0.01	7.1	7.4	4
TP131/0-0.1	Exchanged Ca	MEQ%	0.01	15.7	16.0	2
TP115/0.1-0.2	Exchanged Mg	MEQ%	0.01	10.2	10.0	2
TP131/0-0.1	Exchanged Mg	MEQ%	0.01	5.6	5.7	2
TP115/0.1-0.2	Exchanged Mn	MEQ%	0.01	0.19	0.16	17
TP131/0-0.1	Exchanged Mn	MEQ%	0.01	0.23	0.25	8
TP115/0.1-0.2	Exchanged Al	MEQ%	0.1	<0.1	<0.1	0
TP131/0-0.1	Exchanged Al	MEQ%	0.1	<0.1	<0.1	0
TP115/0.1-0.2	Soluble Na	MEQ%	0.01	2.35	2.15	9
TP131/0-0.1	Soluble Na	MEQ%	0.01	0.40	0.36	11
TP115/0.1-0.2	Soluble K	MEQ%	0.01	0.07	0.07	0
TP131/0-0.1	Soluble K	MEQ%	0.01	0.05	0.06	17
TP115/0.1-0.2	Soluble Ca	MEQ%	0.01	0.58	0.60	3
TP131/0-0.1	Soluble Ca	MEQ%	0.01	3.30	3.40	3
TP115/0.1-0.2	Soluble Mg	MEQ%	0.01	0.86	0.90	5
TP131/0-0.1	Soluble Mg	MEQ%	0.01	1.60	1.45	10
TP115/0.1-0.2	Soluble Mn	MEQ%	0.01	<0.01	<0.01	0
TP131/0-0.1	Soluble Mn	MEQ%	0.01	<0.01	<0.01	0

LABORATORY DUPLICATE REPORT

JOB NO: SAL24537
CLIENT ORDER: 113019

Sample Number	Analyte	Units	MDL	Sample Result	Duplicate Result	%RPD
TP115/0.1-0.2	Soluble Al	MEQ%	0.01	<0.01	<0.01	0
TP131/0-0.1	Soluble Al	MEQ%	0.01	<0.01	<0.01	0

Acceptance criteria:

RPD <50% for low level (<20xMDL)
RPD <30% for medium level (20-100xMDL)
RPD <15% for high level (>100xMDL)
No limit applies at <2xMDL

MDL = Method Detection Limit

All results are within the acceptance criteria

ANALYTICAL REPORT

JOB NO: SAL24537
CLIENT ORDER: 113019

METHODS OF PREPARATION AND ANALYSIS

The tests contained in this report have been carried out on the samples as received by the laboratory.

- P5 Sample dried, split and crushed to -150um
- WA1 pH - 1:5 soil/water extract
 Determined by APHA 4500B
- WA2 Conductivity - 1:5 soil/water extract
 Determined by APHA 2510B
- WA4 Chloride - 1:5 soil/water extract
 Determined by APHA 4110B
- S7 Cation Exchange Capacity & Exchangeable/Soluble Cations
 Determined by Silver Thiourea Method CEC-1



Nutrient Advantage Advice®

Nutrient Report

ENVIRONMENTAL E

MUSWELLBROOK
NSW 2333

Report Print Date: 08/03/2013
Agent/Dealer:
Advisor/Contact: Admin CSV User
Phone: 9731 3100
Purchase Order No:

Grower Name : ENVIRONMENTAL EARTH SCIENCES
Sample No: 030004389
Paddock Name: 13019 18/02/2013
Sample Name: TP130
Sample Depth (cm): 0 To 1

Nearest Town: MUSWELLBROOK
Test Code: ADMINISOIL
Sample Type: Soil
Sampling Date:

Analyte / Assay	Units	Value
Emerson Class		8

The results reported pertain only to the sample submitted.
Analyses performed on soil dried at 40 degrees Celsius and ground to <2mm (excluding moisture assay)
* One or more components of this test are below their detection limit. The value used is indicative only.



Analyses conducted by **Nutrient Advantage Laboratory Services**

NATA Accreditation No: 11958

Certificate of Analysis is available upon request.

8 South Road, Werribee VIC 3030

Tel: 1800 803 453

Email: lab.feedback@incitecpivot.com.au





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Nutrient Report

ENVIRONMENTAL E

MUSWELLBROOK
NSW 2333

Report Print Date: 08/03/2013
Agent/Dealer:
Advisor/Contact: Admin CSV User
Phone: 9731 3100
Purchase Order No:

Grower Name : ENVIRONMENTAL EARTH SCIENCES
Sample No: 030004388
Paddock Name: 13019 18/02/2013
Sample Name: TP129
Sample Depth (cm): 0 To 1

Nearest Town: MUSWELLBROOK
Test Code: ADMINISOIL
Sample Type: Soil
Sampling Date:

Analyte / Assay	Units	Value
Emerson Class		8

The results reported pertain only to the sample submitted.

Analyses performed on soil dried at 40 degrees Celsius and ground to <2mm (excluding moisture assay)

* One or more components of this test are below their detection limit. The value used is indicative only.



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Nutrient Report

ENVIRONMENTAL E

MUSWELLBROOK
NSW 2333

Report Print Date: 08/03/2013
Agent/Dealer:
Advisor/Contact: Admin CSV User
Phone: 9731 3100
Purchase Order No:

Grower Name : ENVIRONMENTAL EARTH SCIENCES
Sample No: 030004290
Paddock Name: 13019 18/02/2013
Sample Name: TP126
Sample Depth (cm): 0 To 1

Nearest Town: MUSWELLBROOK
Test Code: ADMINISOIL
Sample Type: Soil
Sampling Date:

Analyte / Assay	Units	Value
Emerson Class		8

The results reported pertain only to the sample submitted.
Analyses performed on soil dried at 40 degrees Celsius and ground to <2mm (excluding moisture assay)
* One or more components of this test are below their detection limit. The value used is indicative only.



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MUSWELLBROOK
NSW 2333

Report Print Date: 08/03/2013
Agent/Dealer:
Advisor/Contact: Admin CSV User
Phone: 9731 3100
Purchase Order No:

Grower Name : ENVIRONMENTAL EARTH SCIENCES
Sample No: 030004289
Paddock Name: 13019 18/02/2013
Sample Name: TP124
Sample Depth (cm): 0 To 1

Nearest Town: MUSWELLBROOK
Test Code: ADMINISOIL
Sample Type: Soil
Sampling Date:

Analyte / Assay	Units	Value
Emerson Class		7

The results reported pertain only to the sample submitted.
Analyses performed on soil dried at 40 degrees Celsius and ground to <2mm (excluding moisture assay)
* One or more components of this test are below their detection limit. The value used is indicative only.



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Nutrient Report

ENVIRONMENTAL E

MUSWELLBROOK
NSW 2333

Report Print Date: 08/03/2013
Agent/Dealer:
Advisor/Contact: Admin CSV User
Phone: 9731 3100
Purchase Order No:

Grower Name : ENVIRONMENTAL EARTH SCIENCES
Sample No: 030004288
Paddock Name: 13019 18/02/2013
Sample Name: TP123
Sample Depth (cm): 0 To 1

Nearest Town: MUSWELLBROOK
Test Code: ADMINISOIL
Sample Type: Soil
Sampling Date:

Analyte / Assay	Units	Value
Emerson Class		8

The results reported pertain only to the sample submitted.
Analyses performed on soil dried at 40 degrees Celsius and ground to <2mm (excluding moisture assay)
* One or more components of this test are below their detection limit. The value used is indicative only.



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Nutrient Report

ENVIRONMENTAL E

MUSWELLBROOK
NSW 2333

Report Print Date: 08/03/2013
Agent/Dealer:
Advisor/Contact: Admin CSV User
Phone: 9731 3100
Purchase Order No:

Grower Name : ENVIRONMENTAL EARTH SCIENCES
Sample No: 030004287
Paddock Name: 13019 18/02/2013
Sample Name: TP120
Sample Depth (cm): 2 To 3

Nearest Town: MUSWELLBROOK
Test Code: ADMINISOIL
Sample Type: Soil
Sampling Date:

Analyte / Assay	Units	Value
Emerson Class		7

The results reported pertain only to the sample submitted.

Analyses performed on soil dried at 40 degrees Celsius and ground to <2mm (excluding moisture assay)

* One or more components of this test are below their detection limit. The value used is indicative only.



Analyses conducted by **Nutrient Advantage Laboratory Services**

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Tel: 1800 803 453

Email: lab.feedback@incitecpivot.com.au





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Nutrient Report

ENVIRONMENTAL E

MUSWELLBROOK
NSW 2333

Report Print Date: 08/03/2013
Agent/Dealer:
Advisor/Contact: Admin CSV User
Phone: 9731 3100
Purchase Order No:

Grower Name : ENVIRONMENTAL EARTH SCIENCES
Sample No: 030004286
Paddock Name: 13019 18/02/2013
Sample Name: TP119
Sample Depth (cm): 0 To 1

Nearest Town: MUSWELLBROOK
Test Code: ADMINISOIL
Sample Type: Soil
Sampling Date:

Analyte / Assay	Units	Value
Emerson Class		8

The results reported pertain only to the sample submitted.
Analyses performed on soil dried at 40 degrees Celsius and ground to <2mm (excluding moisture assay)
* One or more components of this test are below their detection limit. The value used is indicative only.



Analyses conducted by **Nutrient Advantage Laboratory Services**

NATA Accreditation No: 11958

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Tel: 1800 803 453

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Nutrient Report

ENVIRONMENTAL E

MUSWELLBROOK
NSW 2333

Report Print Date: 08/03/2013
Agent/Dealer:
Advisor/Contact: Admin CSV User
Phone: 9731 3100
Purchase Order No:

Grower Name : ENVIRONMENTAL EARTH SCIENCES
Sample No: 030004285
Paddock Name: 13019 18/02/2013
Sample Name: TP118
Sample Depth (cm): 0 To 1

Nearest Town: MUSWELLBROOK
Test Code: ADMINISOIL
Sample Type: Soil
Sampling Date:

Analyte / Assay	Units	Value
Emerson Class		8

The results reported pertain only to the sample submitted.
Analyses performed on soil dried at 40 degrees Celsius and ground to <2mm (excluding moisture assay)
* One or more components of this test are below their detection limit. The value used is indicative only.



Analyses conducted by **Nutrient Advantage Laboratory Services**

NATA Accreditation No: 11958

Certificate of Analysis is available upon request.

8 South Road, Werribee VIC 3030

Tel: 1800 803 453

Email: lab.feedback@incitecpivot.com.au





Nutrient Advantage Advice®

Nutrient Report

ENVIRONMENTAL E

MUSWELLBROOK
NSW 2333

Report Print Date: 08/03/2013
Agent/Dealer:
Advisor/Contact: Admin CSV User
Phone: 9731 3100
Purchase Order No:

Grower Name : ENVIRONMENTAL EARTH SCIENCES
Sample No: 030004284
Paddock Name: 13019 18/02/2013
Sample Name: TP117
Sample Depth (cm): 0 To 3

Nearest Town: MUSWELLBROOK
Test Code: ADMINISOIL
Sample Type: Soil
Sampling Date:

Analyte / Assay	Units	Value
Emerson Class		8

The results reported pertain only to the sample submitted.

Analyses performed on soil dried at 40 degrees Celsius and ground to <2mm (excluding moisture assay)

* One or more components of this test are below their detection limit. The value used is indicative only.



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Nutrient Report

ENVIRONMENTAL E

MUSWELLBROOK
NSW 2333

Report Print Date: 08/03/2013
Agent/Dealer:
Advisor/Contact: Admin CSV User
Phone: 9731 3100
Purchase Order No:

Grower Name : ENVIRONMENTAL EARTH SCIENCES
Sample No: 030004283
Paddock Name: 13019 18/02/2013
Sample Name: TP109
Sample Depth (cm): 0 To 1

Nearest Town: MUSWELLBROOK
Test Code: ADMINISOIL
Sample Type: Soil
Sampling Date:

Analyte / Assay	Units	Value
Emerson Class		8

The results reported pertain only to the sample submitted.

Analyses performed on soil dried at 40 degrees Celsius and ground to <2mm (excluding moisture assay)

* One or more components of this test are below their detection limit. The value used is indicative only.



Analyses conducted by **Nutrient Advantage Laboratory Services**

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Nutrient Report

ENVIRONMENTAL E

MUSWELLBROOK
NSW 2333

Report Print Date: 08/03/2013
Agent/Dealer:
Advisor/Contact: Admin CSV User
Phone: 9731 3100
Purchase Order No:

Grower Name : ENVIRONMENTAL EARTH SCIENCES
Sample No: 030004282
Paddock Name: 13019 18/02/2013
Sample Name: TP106
Sample Depth (cm): 0 To 1

Nearest Town: MUSWELLBROOK
Test Code: ADMINISOIL
Sample Type: Soil
Sampling Date:

Analyte / Assay	Units	Value
Emerson Class		7

The results reported pertain only to the sample submitted.
Analyses performed on soil dried at 40 degrees Celsius and ground to <2mm (excluding moisture assay)
* One or more components of this test are below their detection limit. The value used is indicative only.



Analyses conducted by **Nutrient Advantage Laboratory Services**

NATA Accreditation No: 11958

Certificate of Analysis is available upon request.

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Tel: 1800 803 453

Email: lab.feedback@incitecpivot.com.au





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Nutrient Report

ENVIRONMENTAL E

MUSWELLBROOK
NSW 2333

Report Print Date: 08/03/2013
Agent/Dealer:
Advisor/Contact: Admin CSV User
Phone: 9731 3100
Purchase Order No:

Grower Name : ENVIRONMENTAL EARTH SCIENCES
Sample No: 030004281
Paddock Name: 13019 18/02/2013
Sample Name: TP105
Sample Depth (cm): 0 To 1

Nearest Town: MUSWELLBROOK
Test Code: ADMINISOIL
Sample Type: Soil
Sampling Date:

Analyte / Assay	Units	Value
Emerson Class		8

The results reported pertain only to the sample submitted.
Analyses performed on soil dried at 40 degrees Celsius and ground to <2mm (excluding moisture assay)
* One or more components of this test are below their detection limit. The value used is indicative only.



Analyses conducted by **Nutrient Advantage Laboratory Services**

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