

Attachment C

Acid base accounting of acid sulphate soil laboratory results

*Using Fineness Figure of 1.5

**NALR = no additional lime required

Key ASS analysis				Lithology		pH _{KCL}	Sulfidic Titratable Actual Acidity (sTAA)	Potential Chromium Reducible Sulfur (S _{CR})	Potential Acidity - Peroxide Oxidizable Sulfur (S _{PO})	Acid Neutralising Capacity (ANC)	Net Acidity (sulfur units)*	Net Acidity (acidity units)	Is this ASS?	Is this PASS?	ALS liming rate for net acidity (PASS+ASS) kg CaCO ₃ /t
Units	Subsite	Depth (m)	Sample No.	Analysis											
LOR					(Folk Classification)		% pyrite S	%S	%S	% CaCO ₃	%S	mole H ⁺ / t			1
							0.02	0.02	0.02	0.01 or 0.02	0.02	10			
							<0.02	<0.02	<0.02	Trigger value =18	Trigger value =0.03	Trigger value =18			
1		1	AS 1/1.0	Cr suite	mud	5.7	<0.02	0.02	-	-	0.03	20	No	Yes	2
1		1.5	AS 1/1.5	SPOCAS	muddy sand	6.1	<0.02	-	<0.02	-	<0.02	<10	No	No	N/A
1		2	AS 1/2.0	Cr suite	muddy sand	6.1	<0.02	-	-	-	0.02	16	No	No	N/A
1		2.25	AS 1/2.25	SPOCAS	muddy sand	6.2	<0.02	-	<0.02	0.07	<0.02	<10	No	No	N/A
1		2.5	AS 1/2.5	Cr suite	muddy sand	5.9	<0.02	<0.02	-	-	<0.02	<10	No	No	N/A
1		3	AS 1/3.0	Cr suite	muddy sand	6.2	<0.02	<0.02	-	-	<0.02	<10	No	No	N/A
2		0.25	AS 2/0.25	Cr suite	sandy mud	5.1	0.02	<0.02	-	-	0.04	24	No	Yes	2
2		0.75	AS 2/0.75	Cr suite	sandy mud	5.3	<0.02	<0.02	-	-	<0.02	12	No	No	N/A
2		1.25	AS 2/1.25	Cr suite	muddy sand	6	<0.02	<0.02	-	-	0.03	18	No	Yes	1
2		1.5	AS 2/1.5	SPOCAS	muddy sand	6	<0.02	-	<0.02	0.09	<0.02	<10	No	No	N/A
2		1.75	AS 2/1.75	Cr suite	sandy clay	5.7	<0.02	<0.02	-	-	<0.02	<10	No	No	N/A
2		2.25	AS 2/2.25	SPOCAS	muddy sand	6.2	<0.02	-	<0.02	0.08	<0.02	<10	No	No	N/A
2		2.75	AS 2/2.75	SPOCAS	muddy sand	6.3	<0.02	-	0.02	0.06	0.02	15	No	No	N/A
2		2.75	AS 2/2.75	Cr suite	muddy sand	6.5	<0.02	<0.02	-	-	<0.02	<10	No	No	N/A
2		3	AS 2/3.0	SPOCAS	muddy sand	6.4	<0.02	-	<0.02	<0.02	<0.02	<10	No	No	N/A
3		1.5	AS 3/1.5	Cr suite	muddy sand	5.9	<0.02	<0.02	-	-	<0.02	<10	No	No	N/A
3		2	AS 3/2.0	SPOCAS	muddy sand	5.9	<0.02	-	0.02	-	0.03	21	No	Yes	2
4		0.25	AS 4/0.25	Cr suite	sandy mud	5.7	<0.02	<0.02	-	-	<0.02	10	No	No	N/A
4		0.5	AS 4/0.5	SPOCAS	sandy mud	6.5	<0.02	-	<0.02	0.33	<0.02	<10	No	No	N/A
4		0.75	AS 4/0.75	Cr suite	sandy mud	7.7	<0.02	<0.02	-	0.55	<0.02	<10	No	No	N/A
4		1.25	AS 4/1.25	SPOCAS	sandy mud	6.4	<0.02	-	<0.02	-	<0.02	<10	No	No	N/A
4		1.5	AS 4/1.5	Cr suite	sand	5.9	<0.02	<0.02	-	-	<0.02	<10	No	No	N/A
4		1.75	AS 4/1.75	Cr suite	sand	6.2	<0.02	<0.02	-	-	<0.02	<10	No	No	N/A
51		1.25	AS 5/1.25	SPOCAS	sandy mud	6.8	<0.02	-	<0.02	<0.02	<0.02	<10	No	No	N/A
51	I	1.75	AS 5/1.75	Cr suite	muddy sand	5.8	<0.02	<0.02	-	-	<0.02	<10	No	No	N/A
51		2.25	AS 5/2.25	SPOCAS	muddy sand	5.8	<0.02	-	<0.02	-	<0.02	<10	No	No	N/A
6A	A	0.25	AS 6A/0.25	SPOCAS	muddy sand	5.4	<0.02	-	<0.02	-	0.03	17	No	Marginal	1
6A	A	0.5	AS 6A/0.5	Cr suite	mud	6.1	<0.02	<0.02	-	-	<0.02	<10	No	No	N/A
6A	A	1.75	AS 6A/1.75	Cr suite	muddy sand	8.5	<0.02	<0.02	-	0.38	<0.02	<10	No	No	N/A
6A	A	2	AS 6A/2.0	SPOCAS	muddy sand	6.9	<0.02	-	<0.02	<0.02	<0.02	<10	No	No	N/A
6A	A	3	AS 6A/3.0	Cr suite	muddy sand	7.5	<0.02	<0.02	-	0.46	<0.02	<10	No	No	N/A
7D	D	0.5	AS 7D/0.5	Cr suite	sandy mud	6.4	<0.02	<0.02	-	-	<0.02	<10	No	No	N/A
7D	D	1.25	AS 7D/1.25	SPOCAS	muddy clay	6	<0.02	-	0.06	-	0.07	45	No	Yes	3
7D	D	1.75	AS 7D/1.75	Cr suite	sand	6.1	<0.02	<0.02	-	-	<0.02	<10	No	No	N/A
7D	D	2.25	AS 7D/2.25	Cr suite	sand	6.2	<0.02	<0.02	-	-	0.02	15	No	No	N/A
7D	D	2.75	AS 7D/2.75	SPOCAS	sand	6.1	<0.02	-	0.11	-	0.12	73	No	Yes	5
7D	D	3	AS 7D/3.0	SPOCAS	sand	6	<0.02	-	0.1	-	0.11	69	No	Yes	5
7D	D	3.25	AS 7D/3.25	Cr suite	sand	6	<0.02	<0.02	-	-	<0.02	<10	No	No	N/A
8C	C	0.5	AS 8C/0.5	SPOCAS	mud	5.7	<0.02	-	<0.02	-	<0.02	<10	No	No	N/A

Key ASS analysis										Lithology	pH _{Ca}	Sulfidic Titratable Actual Acidity (stAA)	Potential Chromium Reducible Sulfur (S _{CR})	Potential Acidity - Peroxide Soluble Sulfur (S _{PS})	Acid Neutralising Capacity (ANC)	Net Acidity (sulfur units)*	Net Acidity (acidity units)	Is this ASS?	Is this PASS?	ALS liming rate for net acidity (PASS+ASS) kg CaCO ₃ /t
Units	Pit ID	Subsite	Depth (m)	Sample No.	Analysis	(Folk Classification)	% pyrite S	%S	%S											
LOR							0.02	0.02	0.02											1
	8C	C	1	AS 8C/1.0	Cr suite	muddy sand	<0.02	<0.02	-		6.5	<0.02	<0.02	-	0.25	<0.02	<10	No	No	N/A
	8C	C	1.25	AS 8C/1.25	Cr suite	muddy sand	<0.02	<0.02	-		5.8	<0.02	<0.02	-	-	<0.02	<10	No	No	N/A
	8C	C	2.25	AS 8C/2.25	SPOCAS	muddy sand	<0.02	<0.02	-		6	<0.02	<0.02	-	-	<0.02	<10	No	No	N/A
	8C	C	2.5	AS 8C/2.50	Cr suite	muddy sand	<0.02	<0.02	-		5.9	<0.02	<0.02	-	-	0.02	15	No	No	N/A
	8C	C	2.75	AS 8C/2.75	SPOCAS	muddy sand	<0.02	<0.02	-		5.9	<0.02	<0.02	-	-	<0.02	<10	No	No	N/A
	8C	C	3	AS 8C/3.0	SPOCAS	muddy sand	<0.02	<0.02	-		6.1	<0.02	<0.02	-	-	<0.02	<10	No	No	N/A
	9		1.25	AS 9/1.25	Cr suite	sandy mud	<0.02	<0.02	-		6.1	<0.02	<0.02	-	-	<0.02	<10	No	No	N/A
	9		1.5	AS 9/1.5	SPOCAS	muddy sand	<0.02	<0.02	-		6	<0.02	<0.02	-	0.04	<0.02	<10	No	No	N/A
	9		1.75	AS 9/1.75	SPOCAS	muddy sand	<0.02	<0.02	-		6.8	<0.02	<0.02	0.1	0.03	17	No	Yes	1	N/A
	9		2	AS 9D/2.0	Cr suite	muddy sand	<0.02	<0.02	-		6.4	<0.02	<0.02	-	-	<0.02	<10	No	No	N/A
	9		2.25	AS 9D/2.25	SPOCAS	clay	<0.02	<0.02	-		6.7	<0.02	<0.02	0.15	0.18	<0.02	<10	No	Yes	NALR
	9		2.5	AS 9D/2.5	SPOCAS	clay	<0.02	<0.02	-		6.6	<0.02	<0.02	0.13	0.17	<0.02	<10	No	Yes	NALR
	9		2.75	AS 9D/2.75	SPOCAS	clay	<0.02	<0.02	-		6.5	<0.02	<0.02	0.05	-	<0.02	10	No	Yes	NALR
	9		3	AS 9D/3.0	Cr suite	sand	<0.02	<0.02	-		6.4	<0.02	<0.02	-	-	<0.02	11	No	No	N/A
	10		0.5	AS 10/0.5	SPOCAS	sandy mud	0.03	<0.02	-		5.1	0.03	<0.02	<0.02	-	0.03	19	Yes	No	1
	10		1	AS 10/1.0	Cr suite	muddy sand	<0.02	<0.02	-		6.2	<0.02	<0.02	-	-	<0.02	<10	No	No	N/A
	10		1.5	AS 10/1.5	SPOCAS	muddy sand	<0.02	<0.02	-		6.3	<0.02	<0.02	-	-	<0.02	<10	No	No	N/A
	11		0.75	AS 11/0.75	Cr suite	sandy mud	<0.02	<0.02	-		5.7	<0.02	<0.02	-	-	0.03	18	No	Yes	1
	11		1.75	AS 11/1.75	Cr suite	sandy mud	<0.02	<0.02	-		5.3	<0.02	<0.02	-	-	<0.02	<10	No	No	N/A
	11		2	AS 11/2.0	SPOCAS	sandy mud	<0.02	<0.02	-		5.8	<0.02	<0.02	0.16	<0.02	0.17	105	No	Yes	8
	11		2.25	AS 11/2.25	SPOCAS	sand	<0.02	<0.02	-		5.9	<0.02	<0.02	0.12	<0.02	0.13	80	No	Yes	6
	11		2.75	AS 11/2.75	Cr suite	mud	<0.02	<0.02	-		5.8	<0.02	<0.02	-	-	0.03	20	No	Yes	1
	12		1.25	AS 12/1.25	Cr suite	sandy silt	<0.02	<0.02	-		6.3	<0.02	<0.02	-	-	<0.02	<10	No	No	N/A
	12		2	AS 12/2.0	SPOCAS	sandy silt	<0.02	<0.02	-		6	<0.02	<0.02	<0.02	0.04	<0.02	<10	No	No	N/A
	12		2.25	AS 12/2.25	Cr suite	sandy silt	<0.02	<0.02	-		6.1	<0.02	<0.02	-	-	0.02	15	No	No	N/A
	13		1.5	AS 13/1.5	SPOCAS	gravelly sand	<0.02	<0.02	-		6.3	<0.02	<0.02	0.04	-	0.04	28	No	Yes	2
	13		2.25	AS 13/2.25	Cr suite	gravelly sand	<0.02	<0.02	-		6.2	<0.02	<0.02	-	-	<0.02	<10	No	No	N/A
	13		2.5	AS 13/2.50	Cr suite	gravelly sand	<0.02	<0.02	-		5.8	<0.02	<0.02	-	-	<0.02	<10	No	No	N/A
	13		2.75	AS 13/2.75	SPOCAS	gravelly sand	<0.02	<0.02	-		5.5	<0.02	<0.02	<0.02	-	<0.02	11	No	No	N/A
	13		3	AS 13/3.0	Cr suite	gravelly sand	<0.02	<0.02	-		5.8	<0.02	<0.02	-	-	<0.02	<10	No	No	N/A
	14		0.5	AS 14/0.5	Cr suite	muddy sand	<0.02	<0.02	-		6	<0.02	<0.02	-	-	<0.02	<10	No	No	N/A
	14		1.25	AS 14/1.25	SPOCAS	muddy sand	<0.02	<0.02	-		6.3	<0.02	<0.02	<0.02	-	<0.02	<10	No	No	N/A
	14		1.5	AS 14/1.5	Cr suite	muddy sand	<0.02	<0.02	-		6.3	<0.02	<0.02	-	-	<0.02	<10	No	No	N/A
	14		2	AS 14/2.0	Cr suite	muddy sand	<0.02	<0.02	-		5.7	<0.02	<0.02	-	-	<0.02	<10	No	No	N/A
	14		2.25	AS 14/2.25	SPOCAS	mud	<0.02	<0.02	-		5.8	<0.02	<0.02	0.16	0.23	0.17	109	No	Yes	8
	14		2.75	AS 14/2.75	Cr suite	mud	<0.02	<0.02	-		5.8	<0.02	<0.02	-	-	<0.02	<10	No	No	N/A
	14		3	AS 14/3.0	Cr suite	gravelly sand	<0.02	<0.02	-		6	<0.02	<0.02	-	-	0.06	35	No	Yes	3
	15		0.5	AS 15/0.5	Cr suite	muddy sand	<0.02	<0.02	-		6.2	<0.02	<0.02	-	-	<0.02	<10	No	No	N/A
	15		1.25	AS 15/1.25	SPOCAS	muddy sand	<0.02	<0.02	-		6.5	<0.02	<0.02	<0.02	-	<0.02	<10	No	No	N/A
	15		1.5	AS 15/1.5	SPOCAS	muddy sand	<0.02	<0.02	-		5.7	<0.02	<0.02	<0.02	0.15	<0.02	<10	No	No	N/A
	15		2	AS 15/2.0	SPOCAS	sandy mud	<0.02	<0.02	-		5.9	<0.02	<0.02	<0.02	0.15	<0.02	<10	No	No	N/A
	16B		0.75	AS 16B/0.75	SPOCAS	sandy mud	<0.02	<0.02	-		6.1	<0.02	<0.02	<0.02	-	<0.02	<10	No	No	N/A
	16B		1	AS 16B/1.0	SPOCAS	sandy mud	<0.02	<0.02	-		5.4	<0.02	<0.02	<0.02	-	<0.02	10	No	No	N/A
	16B	B	1.25	AS 16B/1.25	SPOCAS	sandy mud	0.02	<0.02	-		5.5	<0.02	<0.02	<0.02	-	0.02	14	No	No	N/A
	16B	B	1.5	AS 16B/1.5	SPOCAS	sandy mud	0.02	<0.02	-		5.4	<0.02	<0.02	<0.02	-	0.02	14	No	No	N/A
	16B	B	1.75	AS 16B/1.75	SPOCAS	sandy mud	0.03	<0.02	-		5.2	<0.02	<0.02	<0.02	-	0.03	19	Yes	No	1

Key ASS analysis Units				LOR		Lithology	pH _{loc}	Sulfidic Titration Actual Acidity (sTAA)	Potential Acidity - Chromium Reducible Sulfur (S _{CR})	Potential Acidity - Peroxide Oxidisable Sulfur (S _{PO})	Acid Neutralising Capacity (ANC)	Net Acidity (sulfur units)*	Net Acidity (acid units)	Is this ASS?	Is this PASS?	ALS liming rate for net acidity (PASS/ASS) kg CaCO ₃ /t
PR ID	Subsite	Depth (m)	Sample No.	Analysis												
16B	B	2.25	AS 16B/2.25	Cr suite	sandy mud	5.1	0.03	<0.02	-	<0.02	-	0.03	20	Yes	No	2
16B	B	2.5	AS 16B/2.5	SPOCAS	sandy mud	5.8	<0.02	-	<0.02	<0.02	0.07	<0.02	<10	No	No	N/A
16B	B	2.75	AS 16B/2.75	SPOCAS	muddy sand	6.1	<0.02	-	<0.02	<0.02	0.02	<0.02	<10	No	No	N/A
16B	B	3	AS 16B/3.0	SPOCAS	muddy sand	6.3	<0.02	-	<0.02	<0.02	-	<0.02	<10	No	No	N/A
17		0.5	AS 17/0.5	SPOCAS	sand	6.5	<0.02	-	<0.02	<0.02	0.12	<0.02	<10	No	No	N/A
17		1	AS 17/1.0	Cr suite	muddy sand	6.3	<0.02	<0.02	-	<0.02	-	<0.02	<10	No	No	N/A
17		1.5	AS 17/1.5	SPOCAS	muddy sand	5.6	<0.02	-	<0.02	<0.02	0.24	<0.02	11	No	No	N/A
17		2	AS 17/2.0	Cr suite	mud	5.6	<0.02	<0.02	-	<0.02	-	<0.02	<10	No	No	N/A
17		2.25	AS 17/2.25	SPOCAS	mud	5.8	<0.02	-	<0.02	<0.02	0.02	<0.02	<10	No	No	N/A
18		0.25	AS 18/0.25	SPOCAS	muddy sand	6	<0.02	-	<0.02	<0.02	-	<0.02	<10	No	No	N/A
18		1	AS 18/1.0	SPOCAS	muddy sand	5.9	<0.02	-	<0.02	<0.02	-	<0.02	<10	No	No	N/A
18		1.5	AS 18/1.5	Cr suite	muddy sand	6.4	<0.02	<0.02	-	<0.02	-	<0.02	11	No	No	N/A
18		1.75	AS 18/1.75	SPOCAS	muddy sand	6.3	<0.02	-	<0.02	<0.02	-	<0.02	<10	No	No	N/A
19		0.25	AS 19/0.25	Cr suite	sandy mud	6.2	<0.02	<0.02	-	<0.02	-	<0.02	<10	No	No	N/A
19		0.5	AS 19/0.5	Cr suite	sandy mud	5.8	<0.02	<0.02	-	<0.02	-	0.03	18	No	Yes	1
19		1.5	AS 19/1.5	Cr suite	gravelly sand	6.1	<0.02	<0.02	-	<0.02	-	<0.02	<10	No	No	N/A
20		0.5	AS 20/0.5	SPOCAS	sandy mud	5.7	<0.02	-	0.1	0.1	-	0.11	66	No	Yes	5
20		1	AS 20/1.0	Cr suite	sandy mud	5.5	<0.02	<0.02	-	<0.02	-	<0.02	<10	No	No	N/A
20		1.25	AS 20/1.25	SPOCAS	sandy mud	6.1	<0.02	-	0.08	0.08	<0.02	0.08	50	No	Yes	4
20		2	AS 20/2.0	SPOCAS	clay	6.7	<0.02	-	0.1	0.34	0.34	<0.02	<10	No	Yes	NALR
20		2.25	AS 20/2.25	SPOCAS	clay	6.7	<0.02	-	0.09	0.34	0.34	<0.02	<10	No	Yes	NALR
20		2.5	AS 20/2.5	SPOCAS	clay	7.2	<0.02	-	0.06	-	-	0.02	13	No	Yes	NALR
20		2.75	AS 20/2.75	SPOCAS	clay	6.9	<0.02	-	0.08	-	-	0.23	141	No	Yes	10
20		3	AS 20/3.0	Cr suite	clay	6.9	<0.02	0.49	-	-	0.59	0.37	230	No	Yes	17
20		3.25	AS 20/3.25	Cr suite	sand	6.5	<0.02	0.04	-	-	-	0.04	24	No	Yes	2
21		0.5	AS 21/0.5	Cr suite	sandy mud	5.6	0.03	<0.02	-	-	-	0.03	17	Marginal	No	1
21		0.75	AS 21/0.75	Cr suite	mud	5.5	0.03	<0.02	-	-	-	0.03	16	Marginal	No	1
21		1.25	AS 21/1.25	Cr suite	sandy mud	5.9	<0.02	<0.02	-	-	-	0.03	18	Yes	No	1
21		1.5	AS 21/1.5	SPOCAS	mud	5.6	<0.02	-	<0.02	<0.02	-	<0.02	<10	No	No	N/A
21		2.25	AS 21/2.25	Cr suite	gravelly sand	5.6	<0.02	<0.02	-	-	-	<0.02	12	No	No	N/A
22		0.25	AS 22/0.25	Cr suite	sandy mud	5.6	<0.02	<0.02	-	-	-	<0.02	11	No	No	N/A
22		1	AS 22/1.0	Cr suite	gravelly sand	6.2	<0.02	<0.02	-	-	-	<0.02	<10	No	No	N/A
23		1	AS 23/1.0	Cr suite	sand	6	<0.02	<0.02	-	-	-	<0.02	<10	No	No	N/A
23		2	AS 23/2.0	Cr suite	sand	5.6	<0.02	<0.02	-	-	-	<0.02	11	No	No	N/A
24		1.25	AS 24/1.25	SPOCAS	gravelly sand	7.5	<0.02	-	0.03	0.03	<0.02	<0.02	<10	No	Yes	NALR
25		0.5	AS 25/0.5	SPOCAS	sand	5.9	<0.02	-	<0.02	<0.02	-	<0.02	<10	No	No	N/A
25		0.75	AS 25/0.75	Cr suite	sand	6.3	<0.02	<0.02	-	-	-	<0.02	<10	No	No	N/A
25		1.5	AS 25/1.50	SPOCAS	sand	6.6	<0.02	-	<0.02	<0.02	0.14	<0.02	<10	No	No	N/A
26		0.25	AS 26/0.25	SPOCAS	sand	6.1	<0.02	-	0.03	0.03	-	0.04	24	No	Yes	2
26		0.5	AS 26/0.5	SPOCAS	sand	6.1	<0.02	-	0.04	0.04	-	0.04	27	No	Yes	2
26		0.75	AS 26/0.75	Cr suite	sand	6.2	<0.02	<0.02	-	-	-	<0.02	<10	No	No	N/A
27		1.25	AS 27/1.25	Cr suite	clay	5.8	<0.02	<0.02	-	-	-	<0.02	<10	No	No	N/A
27		1.5	AS 27/1.50	SPOCAS	sand	6.3	<0.02	-	<0.02	<0.02	0.02	<0.02	<10	No	No	N/A
27		2	AS 27/2.0	Cr suite	sand	6.3	<0.02	<0.02	-	-	-	<0.02	<10	No	No	N/A
27		2.75	AS 27/2.75	SPOCAS	sand	6.6	<0.02	-	0.03	0.03	<0.02	<0.02	<10	No	Yes	NALR
27		3	AS 27/3.0	Cr suite	sand	6.6	<0.02	<0.02	-	-	0.36	<0.02	<10	No	No	N/A

Key ASS analysis Units					Lithology	pH _{Ca}	Sulfidic Titratable Actual Acidity (sTAA)	Potential Acidity – Chromium Reducible Sulfur (S _{CR}) %S	Potential Acidity – Peroxide Oxidisable Sulfur (S _{PO2}) %S	Acid Neutralising Capacity (ANC)	Net Acidity (sulfur units)* %S	Net Acidity (acidic units) mole H+ / t	Is this ASS?	Is this PASS?	ALS limiting rate for net acidity (PASS+ASS) kg CaCO ₃ /t
PR ID	Subsite	Depth (m)	Sample No.	Analysis											
LOR					(Folk Classification)		% pyrite S	0.02	0.02	0.01 or 0.02	0.02	10			1
											Trigger value =0.03	Trigger value =18			-
28	1		AS 28/1.0	SPOCAS	mud	6.7	<0.02	-	0.05	-	0.03	17	No	Yes	1
28		1.75	AS 28/1.75	Cr suite	muddy sand	6	<0.02	<0.02	-	-	0.02	14	No	No	N/A
28	2		AS 28/2.0	Cr suite	muddy sand	4.6	0.03	<0.02	-	-	0.03	22	Yes	No	2
28		2.25	AS 28/2.25	Cr suite	muddy sand	4.6	0.03	<0.02	-	-	0.03	32	Yes	No	2
28	2.5		AS 28/2.5	SPOCAS	muddy sand	4.7	<0.02	-	0.02	-	0.04	25	No	Yes	2
28		2.75	AS 28/2.75	SPOCAS	muddy sand	5.1	<0.02	-	<0.02	-	<0.02	<10	No	No	N/A
28	3		AS 28/3.0	Cr suite	muddy sand	4.9	0.02	<0.02	-	-	0.02	14	No	No	N/A
29	0.5		AS 29/0.5	Cr suite	muddy sand	6.4	0.02	<0.02	-	-	<0.02	<10	No	No	N/A
29		0.75	AS 29/0.75	Cr suite	muddy sand	6.6	<0.02	<0.02	-	0.41	<0.02	<10	No	No	N/A
30		0.75	AS 30/0.75	Cr suite	sandy clay	5.7	<0.02	<0.02	-	-	0.03	19	No	Yes	1
30	1		AS 30/1.0	Cr suite	sand	6.1	<0.02	<0.02	-	-	<0.02	<10	No	No	N/A
30		1.25	AS 30/1.25	Cr suite	sand	6	<0.02	<0.02	-	-	0.02	15	No	No	N/A
30	1.75		AS 30/1.75	SPOCAS	sand	6.1	<0.02	-	<0.02	-	<0.02	<10	No	No	N/A
30		2.25	AS 30/2.25	SPOCAS	sand	4.8	0.03	-	0.02	-	0.05	31	Yes	No	2
31		1.25	AS 31/1.25	SPOCAS	muddy sand	5.5	<0.02	-	<0.02	-	<0.02	10	No	No	N/A
31		1.75	AS 31/1.75	Cr suite	muddy sand	5.6	<0.02	<0.02	-	-	<0.02	<10	No	No	N/A
31		2.25	AS 31/2.25	Cr suite	muddy sand	5.6	<0.02	<0.02	-	-	<0.02	<10	No	No	N/A
31	31		AS 31/2.5	SPOCAS	muddy sand	5.4	<0.02	-	<0.02	-	<0.02	<10	No	No	N/A
31		2.75	AS 31/2.75	Cr suite	muddy sand	5.5	<0.02	<0.02	-	-	<0.02	<10	No	No	N/A
31	3		AS 31/3.0	SPOCAS	muddy sand	5.4	<0.02	-	<0.02	-	<0.02	<10	No	No	N/A
32		1.75	AS 32/1.75	SPOCAS	sandy mud	6	<0.02	-	<0.02	-	<0.02	<10	No	No	N/A
32		1.75	AS 32/1.75 (dup)	SPOCAS	sandy mud	6.5	<0.02	-	0.08	0.22	<0.02	<10	No	Yes	NALR
32		2.25	AS 32/2.25	SPOCAS	sandy mud	5.3	<0.02	<0.02	0.05	-	0.06	40	No	Yes	3
32	2.5		AS 32/2.5	Cr suite	sandy mud	4.7	0.04	<0.02	-	-	0.04	26	Yes	No	2
32		2.75	AS 32/2.75	SPOCAS	sandy mud	4.6	0.03	-	<0.02	-	0.04	28	Yes	No	3
32	3		AS 32/3.0	Cr suite	sandy mud	6.1	<0.02	<0.02	-	-	<0.02	<10	No	No	N/A
32		3.25	AS 32/3.25	SPOCAS	sandy mud	5.9	<0.02	-	0.06	-	0.07	44	No	Yes	3
33		0.5	AS 33/0.5	Cr suite	sandy mud	5.5	<0.02	<0.02	-	-	<0.02	11	No	No	N/A
33		1.5	AS 33/1.5	SPOCAS	muddy sand	5.8	<0.02	-	<0.02	0.04	<0.02	<10	No	No	N/A
33		2.25	AS 33/2.25	Cr suite	muddy sand	5.7	<0.02	<0.02	-	-	<0.02	<10	No	No	N/A
33	2.5		AS 33/2.5	Cr suite	muddy sand	6	<0.02	<0.02	-	-	<0.02	<10	No	No	N/A
33		3	AS 33/3.0	SPOCAS	gravely muddy sand	6.4	<0.02	-	<0.02	0.02	<0.02	<10	No	No	N/A
34		0.75	AS 34/0.75	Cr suite	sandy mud	5.2	0.02	<0.02	-	-	0.02	16	No	No	1
34	2		AS 34/2.0	Cr suite	sandy mud	4.6	0.04	<0.02	-	-	0.04	28	Yes	No	2
34		2.25	AS 34/2.25	SPOCAS	sandy clay	4.6	0.05	-	<0.02	-	0.05	33	Yes	No	2
34	2.5		AS 34/2.50	Cr suite	sandy clay	4.5	0.06	<0.02	-	-	0.06	34	Yes	No	2
34		2.75	AS 34/2.75	SPOCAS	sandy clay	4.5	0.05	-	0.02	-	0.08	49	Yes	No	4
34	34		AS 34/3.0	SPOCAS	sandy clay	4.5	0.06	-	<0.02	-	0.07	45	Yes	No	3
35		1	AS 35/1.0	Cr suite	sandy mud	6.1	<0.02	<0.02	-	-	<0.02	<10	No	No	N/A
35		1.25	AS 35/1.25	SPOCAS	sandy mud	5.9	<0.02	-	<0.02	-	<0.02	<10	No	No	N/A
35		1.75	AS 35/1.75	SPOCAS	sandy clay	4.7	0.04	<0.02	-	-	0.05	34	Yes	No	2
35	2		AS 35/2.0	Cr suite	sandy clay	4.7	0.04	<0.02	-	-	0.04	24	Yes	No	2
35	2.5		AS 35/2.5	SPOCAS	sandy clay	4.5	0.05	-	<0.02	-	0.07	44	Yes	No	3
35		2.75	AS 35/2.75	SPOCAS	sandy clay	4.6	0.05	-	<0.02	-	0.07	41	Yes	No	3
35	3		AS 35/3.0	Cr suite	sandy clay	4.9	0.04	0.05	-	-	0.09	57	Yes	No	4

Key ASS analysis										Lithology	pH _{calc}	Sulfidic Titratable Actual Acidity (sTAA)	Potential Acidity – Chromium Reducable Sulfur (S _{CR})	Potential Acidity - Peroxide Oxidisable Sulfur (S _{POD})	Acid Neutralising Capacity (ANC)	Net Acidity (sulfur units)*	Net Acidity (acidity units)	Is this ASS?	Is this PASS?	ALS liming rate for net acidity (PASS+ASS) kg CaCO ₃ /t
Units	Pit ID	Subsite	Depth (m)	Sample No.	Analysis	(Folk Classification)	% pyrite S	%S	% CaCO ₃											
LOR							0.02	0.02	0.01 or 0.02			0.02	0.02	0.02	0.01 or 0.02	0.02	10			1
	Pit ID	Subsite	Depth (m)	Sample No.	Analysis											Trigger value =0.03	Trigger value =18			
36	AS 36/0.5		0.5	AS 36/0.5	Cr suite	sandy mud	<0.02	-	-	5.4	<0.02	<0.02	<0.02	-	0.15	<0.02	12	No	No	N/A
36	AS 36/1.5		1.5	AS 36/1.5	SPOCAS	sandy clay	<0.02	<0.02	-	6.8	<0.02	<0.02	<0.02	<0.02	0.15	<0.02	<10	No	No	N/A
36	AS 36/1.75		1.75	AS 36/1.75	Cr suite	sandy clay	<0.02	-	<0.02	6.6	<0.02	<0.02	<0.02	-	0.5	<0.02	<10	No	No	N/A
36	AS 36/2.0		2	AS 36/2.0	SPOCAS	sandy clay	<0.02	-	<0.02	6.5	<0.02	<0.02	<0.02	<0.02	0.1	<0.02	<10	No	No	N/A
36	AS 36/2.25		2.25	AS 36/2.25	Cr suite	muddy sand	<0.02	<0.02	<0.02	6.4	<0.02	<0.02	<0.02	-	-	<0.02	<10	No	No	N/A
36	AS 36/2.50		2.5	AS 36/2.50	Cr suite	muddy sand	<0.02	<0.02	<0.02	6.1	<0.02	<0.02	<0.02	-	-	<0.02	<10	No	No	N/A
36	AS 36/2.75		2.75	AS 36/2.75	SPOCAS	muddy sand	<0.02	-	<0.02	6.2	<0.02	<0.02	<0.02	<0.02	-	<0.02	<10	No	No	N/A
37	AS 37/0.75		0.75	AS 37/0.75	Cr suite	sandy mud	<0.02	-	<0.02	8	<0.02	<0.02	<0.02	-	0.7	<0.02	<10	No	No	N/A
37	AS 37/1.0		1	AS 37/1.0	SPOCAS	sandy mud	<0.02	-	<0.02	6.4	<0.02	<0.02	<0.02	<0.02	0.16	<0.02	<10	No	No	N/A
37	AS 37/1.5		1.5	AS 37/1.5	Cr suite	muddy sand	<0.02	-	<0.02	6.2	<0.02	<0.02	<0.02	-	-	<0.02	<10	No	No	N/A
37	AS 37/2.25		2.25	AS 37/2.25	SPOCAS	muddy sand	<0.02	-	<0.02	5.8	<0.02	<0.02	<0.02	<0.02	0.6	<0.02	<10	No	No	N/A
37	AS 37/2.5		2.5	AS 37/2.5	SPOCAS	muddy sand	<0.02	-	<0.02	5.7	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<10	No	No	N/A
37	AS 37/3.0		3	AS 37/3.0	Cr suite	muddy sand	<0.02	<0.02	<0.02	5.5	<0.02	<0.02	<0.02	-	-	<0.02	<10	No	No	N/A
38	AS 38/1.0		1	AS 38/1.0	SPOCAS	sandy mud	<0.02	-	<0.02	6.3	<0.02	<0.02	<0.02	<0.02	0.19	<0.02	<10	No	No	N/A
38	AS 38/1.50		1.5	AS 38/1.50	Cr suite	muddy sand	<0.02	-	<0.02	6.3	<0.02	<0.02	<0.02	-	-	<0.02	<10	No	No	N/A
38	AS 38/1.75		1.75	AS 38/1.75	SPOCAS	muddy sand	<0.02	-	<0.02	6.5	<0.02	<0.02	<0.02	<0.02	0.05	<0.02	<10	No	No	N/A
38	AS 38/2.25		2.25	AS 38/2.25	SPOCAS	muddy sand	<0.02	-	<0.02	6.5	<0.02	<0.02	<0.02	<0.02	0.09	<0.02	<10	No	No	N/A
38	AS 38/2.75		2.75	AS 38/2.75	Cr suite	muddy sand	<0.02	-	<0.02	6.1	<0.02	<0.02	<0.02	-	-	<0.02	<10	No	No	N/A
38	AS 38/3.0		3	AS 38/3.0	SPOCAS	muddy sand	<0.02	-	<0.02	5.8	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	10	No	No	N/A
39	AS 39/0.25		0.25	AS 39/0.25	SPOCAS	sandy mud	<0.02	-	<0.02	6.2	<0.02	<0.02	<0.02	0.03	-	0.03	21	No	Yes	2
39	AS 39/0.75		0.75	AS 39/0.75	SPOCAS	sandy clay	<0.02	-	<0.02	6.2	<0.02	<0.02	<0.02	0.07	0.13	0.08	47	No	Yes	4
39	AS 39/1.25		1.25	AS 39/1.25	Cr suite	sandy clay	<0.02	0.02	<0.02	6.2	<0.02	<0.02	<0.02	-	-	0.03	21	No	Yes	2
39	AS 39/1.5		1.5	AS 39/1.5	Cr suite	sandy clay	<0.02	0.42	<0.02	6.3	<0.02	<0.02	<0.02	-	-	0.42	266	No	Yes	20
39	AS 39/1.75		1.75	AS 39/1.75	SPOCAS	gravely muddy sand	<0.02	-	<0.02	6.2	<0.02	<0.02	<0.02	0.02	-	0.02	15	No	No	N/A
39	AS 39/2.0		2	AS 39/2.0	SPOCAS	gravely muddy sand	<0.02	-	<0.02	6.5	<0.02	<0.02	<0.02	<0.02	-	<0.02	<10	No	No	N/A