

APPENDIX 1

Point count results of samples from the Narrabeen Group

Samples	Q	F	RF				Mu	THML	Qo	Carb					Po		
			SRF	VRF	MRF	TRF				S	Ca	A	D	Carb	P1	P2	TPo
NPFM - EAW 42 (2)	85.5	0.8	0	1	0	1	0	1.2	1	0.8	0	3.3	0.6	4.7	0.5	2	2.5
NPFM - EAW 42 (4)	58	0.2	1.6	8	0	9.6	1.8	2.6	1.5	7	0	0.4	0.3	7.7	0	0	0
NPFM - EAW 42 (6)	59.4	0.5	2.5	8.7	0	11.2	1	0.9	2	8.5	0	0.5	0	9	0	0	0
BACS - EAW 42 (14)	31.7	1	6	20.9	0	26.9	0.4	2.2	0.2	19.5	0.2	0.6	0.2	20.5	0	1.5	1.5
BGSS - EAW 42 (18)	75.3	1	0	4.4	0	4.4	0	1.2	0.2	2.9	0	0	0.1	3	2.2	9.7	11.9
BGSS - EAW 42 (19)	63.8	0.3	1.2	8.7	0	9.9	0	1.2	4	2.5	0	0.5	0	3	2.5	12.2	14.7
BGSS - EAW 42 (21)	65.2	0.5	0	8.7	0	8.7	0	1.1	1.7	7.7	0	0	0	7.7	1.2	6	7.2
BGSS - EAW 42 (22)	50.3	1.6	2	16.1	0	18.1	0	1.4	3.4	7.3	0	1.1	0	8.4	1	6.9	7.9
BGSS - EAW 42 (23)	66.4	1	1	6	0	7	0	1.5	4.5	4.3	0	0.2	0	4.5	2.5	11.4	13.9
BGSS - EAW 42 (24)	48.8	0.4	1.2	17.6	0	18.8	0	1.1	3.5	12.1	0	0.8	0	12.9	2	7.4	9.4
BGSS - EAW 42 (25)	64.3	0.7	1.2	7.9	0	9.1	0	2	5.5	0.8	0	0.7	0	1.5	3.7	13.2	16.9
BGSS - EAW 42 (27)	51.7	1.3	2	10.6	0	12.6	0	1	4.1	2.8	0	1.2	0.4	4.4	3	14.3	17.3
BGSS - EAW 42 (29)	70	0.7	0.5	9.9	0	10.4	0	0.9	4	3.3	0	0.4	0.3	4	0	4.2	4.2
BGSS - EAW 42 (30)	59.1	2	0.7	7.7	0	8.4	0	1.6	2	2.8	0	1.8	0	4.6	1.7	11.7	13.4
BGSS - EAW 42 (31)	66.4	1	1	6.4	0	7.4	0	1.6	0.7	3.3	0	0.2	0	3.5	2.5	14	16.5
BGSS - EAW 42 (32)	63.8	0.3	1.5	8.2	0	9.7	0	1.2	7	1.3	0	0	0.7	2	1	9.2	10.2
SPCS - EAW 42 (34)	18.2	1.9	4.4	26.8	0	31.2	0	1.5	4.4	4.5	0.6	8	4.8	17.9	0	3	3
SPCS - EAW 42 (35)	18.3	2.2	6.9	31	0	37.9	0.3	1.5	0.7	4.1	0.6	11.6	2.8	19.1	2.5	8	10.5
SBSS - EAW 42 (37)	28.5	2.2	2.2	25.3	0	27.5	0.3	1.6	2.9	6	0.3	3.6	2.1	12	1	8.5	9.5
SBSS - EAW 42 (38)	28.2	1.2	6.6	22.3	0	28.9	0	1.1	3.7	4.1	0	2	0.5	6.6	1.5	18	19.5
SBSS - EAW 42 (39)	41.7	2.5	2	12.2	0	14.2	0.2	2	1.5	7.5	0	2	1.7	11.2	0	6.3	6.3
SBSS - EAW 42 (42)	16.5	2.5	5.9	40.8	0	46.7	0.3	1.7	2	12.5	0.8	0.7	0	14	0.6	3.4	4
SBSS - EAW 42 (+42)	24.2	1.9	4.1	13.7	0	17.8	1	1.4	1	8.5	0.8	2	0.2	11.5	0	0	0
SBSS - EAW 42 (43)	16.4	2.7	6	44.4	0	50.4	0.2	1.6	1.7	6	0.4	3.5	3.7	13.6	0	3.6	3.6
SBSS - EAW 42 (44)	37.2	1.5	3.9	28.9	0	32.8	0	1.2	1.2	2.8	0	2.6	2	7.4	0	5.6	5.6

Samples	Q	F	RF				Mu	THML	Qo	Carb					Po		
			SRF	VRF	MRF	TRF				S	Ca	A	D	Carb	P1	P2	TPo
SBSS - EAW 42 (45)	16.7	2	3.7	35.9	0	39.6	0	1.2	1.7	14.3	0	0	0.2	14.5	0.4	5.5	5.9
SBSS - EAW 42 (+45)	36.2	2.3	3.4	21.7	0	25.1	0	1.6	2.2	3.1	0	0.2	0.6	3.9	4	17	21
SBSS - EAW 30 (1)	28.2	0.6	0.9	33.3	0	34.2	0	1.3	2.5	15	0	0.5	2.1	17.6	1	4	5
SBSS - EAW 30 (2)	18.6	0.2	3.7	21	0	24.7	0	1.5	1.7	24.1	0	1.1	0.8	26	1.5	3	4.5
SBSS - EAW 30 (4)	25.4	2	1.1	29.3	0	30.4	1.4	1.1	2.2	14.3	1.1	0	0	15.4	0.5	3.2	3.7
SBSS - EAW 30 (5)	31.2	0.8	1.6	14.1	0	15.7	2.7	1.1	1.6	16.9	1	0.5	0.5	18.9	0	0	0
SBSS - EAW 30 (6)	33	0.1	1.2	14.6	0	15.8	0.2	1	1.6	14.2	1.5	0.3	1.5	17.5	0	0	0
SBSS - EAW 30 (7)	22.1	0.2	3.4	37.1	0	40.5	0	1.1	2	4.7	0.2	0	0	4.9	1.5	14	15.5
SBSS - EDEN 125 (1)	41.3	0	3	39.6	0	42.6	0	1.2	1.9	7.1	0	0.8	0.5	8.4	0.3	1.7	2
SBSS - EDEN 125 (2)	49.9	0	3.1	32.8	0	35.9	0	1.8	2.2	2.5	0	0.8	1.3	4.6	0.5	3.7	4.2
SBSS - EDEN 125 (3)	28.3	0.5	4.5	42.5	0	47	0	1.3	2.2	4.5	0	0	0	4.5	0.5	9.5	10
SBSS - EDEN 125 (4)	33.4	0.5	2.1	37.3	0	39.4	0	1.2	1.5	4.3	0	0.4	0	4.7	0.5	8.8	9.3
WBCS - EAW 156 (1)	13	2.9	8.1	45.6	0	53.7	0.1	0.4	0.5	1.6	0.4	0	0	2	0.5	4	4.5
WBCS - EAW 156 (5)	15.3	1	0	35.9	0	35.9	0	0.9	0.3	7.7	0	1.9	1.9	11.5	0	0.2	0.2
WBCS - EAW 156 (6)	16.3	2	4.9	44.6	0	49.5	0	0.7	1.1	6.5	0.2	0.2	0.3	7.2	0	0	0
WBCS - EAW 42 (47)	54	1.6	0	2	0	2	4.1	1	2	7.8	0.3	1.4	0.3	9.8	0	0.5	0.5
WBCS - EAW 42 (48)	51.8	1.6	6.4	15.7	0	22.1	0	0.9	4.1	1.7	0	4.6	1.3	7.6	0	5.9	5.9
WBCS - EAW 42 (+48)	49.7	0.6	0.5	13.7	0	14.2	0	1.1	2	9.6	0	2.2	0.8	12.6	0	0	0
WBCS - EAW 42 (49)	45.7	1.5	0	13.1	0	13.1	2	1.1	2.2	10.7	0.9	2	0.6	14.2	0	0	0
WBCS - EAW 30 (9)	24.5	0	0	0.5	0	0.5	4	0.2	0.5	10.1	0.2	0	0.2	10.5	0	0	0
WBCS - EAW 30 (10)	26.5	1	5.1	31.5	0	36.6	0	1.7	1.2	16.8	0	0	0	16.8	0	0	0
WBCS - EAW 30 (11)	24.7	0.5	1	29.9	0	30.9	0	0.5	2	15.2	0.6	0	0	15.8	1.5	9.2	10.7
WBCS - EAW 30 (12)	40.7	0.5	10.8	18.7	0	29.5	0	1	1.9	7	0	0	1.1	8.1	0	0	0
WBCS - EAW 30 (14)	44.6	0.4	8.2	14.9	0	23.1	0	1.3	4.2	2	0	1.8	2.5	6.3	2.2	10.3	12.5
WBCS - EAW 30 (15)	47.7	0.7	7.7	17.6	0	25.3	0	1.8	4.4	4.8	0	0	0	4.8	0	0.3	0.3

Samples	Q	F	RF				Mu	THML	Qo	Carb					Po		
			SRF	VRF	MRF	TRF				S	Ca	A	D	Carb	P1	P2	TPo
WBCS - EAW 30 (16)	23.3	0.9	15.9	28.9	0	44.8	0.1	1.5	0.5	6.7	0.5	1.4	0.5	9.1	0.8	8.4	9.2
WBCS - EAW 30 (17)	23.6	1	13.8	28.3	0	42.1	0	1.8	0.5	8.3	0.6	0	0	8.9	3.7	0.5	4.2
WBCS - EAW 30 (18)	23.7	0.7	7.7	36.8	0	44.5	0.2	1.7	1.1	6	0.5	8.5	10.3	25.3	0	0	0
WBCS - EAW 30 (20)	22.5	0	5.7	55.9	0	61.6	0.1	0.5	3	1.4	0.2	0.1	0	1.7	0	0	0
WBCS - EAW 30 (21)	22.8	0.4	0	2.4	0	2.4	10	1	0	5	0.8	0.3	0.3	6.4	0	0	0
WBCS - EDEN 124 (2)	25.9	0	1	24.5	0	25.5	0.3	1.4	2	4.9	0	0	0.1	5	0	0	0
WBCS - EDEN 124 (3)	33.5	0.4	1.2	37	0	38.2	0.2	1.3	1.4	4.3	0	2.3	3.6	10.2	0	0	0
WBCS - EDEN 124 (4)	36.3	0	1.2	36.2	0	37.4	0	0.9	1.6	5.7	0	0	0.8	6.5	0	0.2	0.2
WBCS - EDEN 124 (5)	15.8	0.6	4.7	58.6	0	63.3	0	1.4	1.6	5.2	0	0	0	5.2	1.5	4.5	6
WBCS - EDEN 124 (6)	21.9	0.4	2.4	45.8	0	48.2	0	1.2	1.6	2.7	0	2.2	2.1	7	1	8.2	9.2
WBCS - EDEN 124 (7)	26.1	0	1.9	46.1	0	48	0	1	1.9	0.6	0	4.4	2.8	7.8	1	3.8	4.8
WBCS - EDEN 125 (6)	36.5	0.5	1.8	25.3	0	27.1	0.9	1.2	1.6	9.6	0.5	1.6	3.9	15.6	0	2.7	2.7
WBCS - EDEN 125 (7)	29.7	0	3.2	34	0	37.2	0	0.5	1.2	0.9	0	5.6	9.5	16	2.2	7	9.2
WBCS - EDEN 125 (8)	18.6	0.7	6.1	49.3	0	55.4	0.2	1.3	0.8	3	0	1.2	7.7	11.9	0.8	10.2	11
WBCS - EDEN 125 (10)	25.7	0.4	3	31.9	0	34.9	0	1.3	1.1	3.9	0.5	7	3.6	15	1	10.5	11.5
WBCS - EDEN 126 (38)	32.2	0.8	2.8	27.2	0	30	0	1.9	1.3	9.5	0	0.3	3.2	13	0	0	0
WBCS - EDEN 126 (3)	29.6	0.8	1	23.3	0	24.3	0	1.3	1.1	4.6	0.3	3.2	2.7	10.8	0.8	11.4	12.2
WBCS - EDEN 126 (4)	6.5	0.7	0.6	58.3	0	58.9	0	1	0.3	8.2	0	2.9	3.6	14.7	0.8	12.7	13.5
WBCS - EDEN 126 (6)	8	0.9	0.4	61.5	0	61.9	0	1.4	0.3	5.7	0	5.6	3.7	15	1.8	4.2	6
WBCS - EDEN 126 (7)	12.5	0.5	8.8	36.1	0	44.9	0	1.2	0.5	1.1	0.5	14	3.3	18.9	0.5	5.5	6
WBCS - EDEN 126 (8)	26.7	1	1.5	36.2	0	37.7	0	1.6	1.1	8.6	0	4.5	0	13.1	0	0	0
WBCS - EDEN 126 (10)	21.1	0.5	0	10.3	0	10.3	3.8	1.1	0.5	11.3	0.2	0.4	0.6	12.5	0	0	0
WBCS - EDEN 126 (12)	24.8	0.9	0	18	0	18	0.3	0.7	1.1	9.6	0.6	16.9	6.6	33.7	0	0	0
WBCS - EDEN 127 (2)	23.6	0.5	1.5	39.3	0	40.8	1.2	0.9	2	10.7	0.4	0	0.4	11.5	0	0	0
WBCS - EDEN 127 (3)	26.7	0.2	3	47.2	0	50.2	0	1.6	1.2	2.5	0.1	1.7	3	7.3	0.5	2.5	3
WBCS - EDEN 127 (4)	21.8	0.5	0	44.8	0	44.8	0.1	0.8	0.5	1.2	19.2	0.5	0.2	21.1	0	0	0

Samples	Q	F	RF				Mu	THML	Qo	Carb					Po		
			SRF	VRF	MRF	TRF				S	Ca	A	D	Carb	P1	P2	TPo
WBCS - EDEN 127 (5)	29.2	0.2	0.5	45.6	0	46.1	0.3	0.4	1.1	10	0	1.8	4.8	16.6	1.7	3.8	5.5
WBCS - EDEN 127 (7)	26.2	1.2	2.1	47.1	0	49.2	0.2	1	1.2	1.1	0.4	3.4	2.1	7	0	3.5	3.5
WBCS - EDEN 127 (8)	19.3	1.3	1.4	44.5	0	45.9	2.1	1.1	0.8	7.8	1.7	1.7	0	11.2	0	0	0
WBCS - EDEN 127 (10)	11.2	0.9	0	7.8	0	7.8	1.9	1.1	0.2	2.3	1.3	44.6	10.8	59	0	0	0
CCSS - Surface 1	17.2	1.2	0	69.8	0	69.8	0	1.3	0.8	0	2.5	0	1.2	3.7	0	1	1
CCSS - Surface 2	5.7	0.8	0	84.4	0	84.4	0.5	1.4	0	0	5.9	0	0.4	6.3	0	0	0
CCSS - Surface 3	24.5	1	0	58.1	0	58.1	0.7	0.4	1.2	2.7	0	0	0.5	3.2	0	1.7	1.7
CCSS - EAW 156 (12)	29.3	1.7	1.6	31.7	0	33.3	1.7	0.3	1.1	3.5	0.1	0	0	3.6	0.8	15.2	16
CCSS - EAW 156 (13)	29.4	0.4	2.6	32.2	0	34.8	0	0.4	1.1	2.2	0	0	0	2.2	0.5	12.2	12.7
CCSS - EAW 30 (22)	26.9	0.9	0.9	30.8	0	31.7	0	1.3	2.4	5	0	5.9	5	15.9	2	9.2	11.2
CCSS - EAW 30 (23)	20.5	0.5	6.7	33.2	0	39.9	1.3	3.3	0.4	11.6	2.2	0.9	0	14.7	0	0	0
CCSS - EAW 30 (24)	15.4	0.6	4.2	30.9	0	35.1	0.7	1.3	0.7	5.1	0.9	8	8.4	22.4	1.3	7.7	9
CCSS - EAW 30 (25)	21.6	0.6	9.4	40.1	0	49.5	0.2	1	0.7	2.2	0	3.3	1	6.5	2	8.5	10.5
CCSS - EAW 30 (26)	38.9	0.8	11.6	27.7	0	39.3	0	1.1	3.8	1.9	0	0	0	1.9	0	3	3
CCSS - EAW 30 (54)	37.5	0.6	9.6	21.2	0	30.8	0.3	1	3.5	2.5	0	0	0	2.5	0	0.2	0.2
CCSS - EDEN 124 (9)	23	0.2	1.2	39.2	0	40.4	0.3	1.1	0.9	4.4	2.6	3.7	3.3	14	0	0	0
CCSS - EDEN 124 (10)	25.2	0.4	1.2	37.1	0	38.3	1.2	1.1	1	1.8	1.6	7.7	1.4	12.5	0	0	0
CCSS - EDEN 124 (11)	25.1	0	0.8	31.3	0	32.1	0.2	0.5	1.1	1.3	1.5	10.3	5.1	18.2	0.5	3	3.5
CCSS - EDEN 125 (11)	19.1	0.4	3.9	59.4	0	63.3	0	1	0.7	2.5	0	4.5	0.3	7.3	0.5	7.7	8.2
CCSS - EDEN 125 (12)	21.7	0	0	11.2	0	11.2	1.8	0.9	0	6.1	27.2	9.7	3.4	46.4	0	0	0
CCSS - EDEN 125 (14)	48.6	0	0	2	0	2	0.9	0.9	0.2	7.5	0	0	0.2	7.7	0	0	0
CCSS - EDEN 127 (11)	17.3	1.1	1.2	40.8	0	42	0	0.8	0.8	1.5	1.3	13.9	1.8	18.5	0.7	5.5	6.2
CCSS - EDEN 127 (12)	21.8	0.9	2.4	47.7	0	50.1	0.2	0.7	0.5	2	0	1.2	0.6	3.8	0.7	5	5.7
CCSS - EDEN 127 (13)	19.2	1	2.2	47.5	0	49.7	0.9	1	0.3	4.2	0.1	0.1	0.2	4.6	0	1	1

Q – quartz, F – feldspar, RF – rock fragment, SRF – sedimentary rock fragment, VRF – volcanic rock fragment, MRF – metamorphic rock fragment, TRF – total rock fragment, Mu – muscovite, HML – heavy minerals, Qo – quartz overgrowth, Carb – carbonate cement, S – siderite, Ca – calcite, A – ankerite, D – dolomite, P1 – primary porosity, P2 – secondary porosity, TPo – total thin section porosity,