

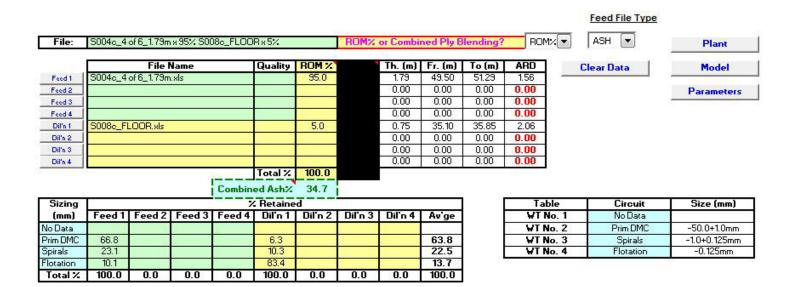
## RESOURCE\_MASTORTM

A&B Mylec was formed in 1995 to provide metallurgical, process engineering and coal technology expertise to the Australian mining industry. The company is located in Rockhampton and Brisbane Queensland Australia. Apart from serving the Australian coal mining industry, the company undertakes metallurgical and coal quality evaluation work in South Africa, Mozambique, Botswana, Mongolia, Indonesia, Russian Federation, Canada, Colombia and the USA. From the Company's inception our suite of metallurgical services has worked seamlessly with our coal quality expertise ensuring that an awareness of the whole coal chain contributes to all developed solutions. Our gamut of services span the earliest stages of mine site development and evaluation, incorporate all stages of project investigation and feasibility, through to detailed process design, implementation, market definition and support.

A&B Mylec's patented plant simulation package *RESOURCE\_MASTOR™*, enables timely and accurate simulations of product yield and quality for your resource and plant feed data. *RESOURCE\_MASTOR™* uses validated washability data to highlight any source of inefficiency in the Coal Preparation Plant (CPP). *RESOURCE\_MASTOR™* is a user-friendly simulation package that utilises a whole of circuit modelling approach, incorporating a combination of available literature and in-house models, and can be custom designed for your specific mine site CPP.

Generation of washability tables from borecore, strip samples or plant feed samples can be used for the generation of budget yield expectations and forward production planning or shorter term reconciliation of actual versus expected comparisons. Target / optimum CPP setup configuration and medium settings can be generated to minimise operating run hours at incorrect and / or inefficient conditions.

Clear layout of up to eight simulation data sources enables multiple scenarios can be simulated easily. The size distribution across each CPP circuit is clearly displayed for the individual feed sources and the combined feed source.





Parameters utilised to simulate metallurgical efficiency are clearly displayed and can easily be altered. The impact of changing each of the parameters is graphically displayed to illustrate the impacts of the metallurgical efficiency parameters.

₩ashability Table No. 1	Circuit:	No Data	Current Saved
Density Device Ep: Loss Factor (Devatering etc):		0.020	0.020
		2.0	2.0
Washability Table No. 2 (Primary)	Circuit:	Prim DMC	Current Save
Density Device Ep:		0.040	0.040
Loss Factor (Dewatering etc):	•	3.0	3.0
√ashability Table No. 2 (Secondary	Circuit:	N/A	Current Save
Density Device Ep:		0.040	0.040
Density Device Ep: Loss Factor (Devatering etc):		0.040 3.0	0.040 3.0
	Circuit:		3.0
Loss Factor (Devatering etc):	Circuit:	3.0	

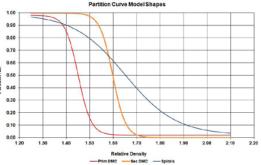
Washability Table No. 4	Circuit:	Flotation	<b>Current Saved</b>
Loss Factor (Dewatering etc):	•	5.0	5.0
Flotation Contamination %:		1.0	1.0
Select Cumulative Flotation Frac	tion	Cum, Fractio	

Product Yld. Ben. %:

Product Ash Ben. %:

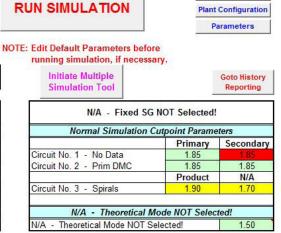
Loss Factor (Devatering etc)

PARTITION CURVE SHAP			
Washability Table No. 1	Circuit:	No Data	Current Save
Low density tail: (T0)		0.00	0.00
High density tail: (T1)		1.00	1.00
Washability Table No. 2 (Primary)	Circuit:	Prim DMC	Current Save
Low density tail: (T0)		0.00	0.01
High density tail: (T1)		1.00	0.98
√ashability Table No. 2 (Secondary	Circuit:	N/A	Current Save
Low density tail: (T0)		0.00	0.00
High density tail: (T1)		1.00	1.00
Washability Table No. 3	Circuit:	Spirals	Current Save
Low density tail: (T0)		0.00	0.01
High density tail: (T1)		1.00	0.98





SELECT MODE OF OPERATION OF SIMULATION SYSTEM:



95.0

95.0

5.0

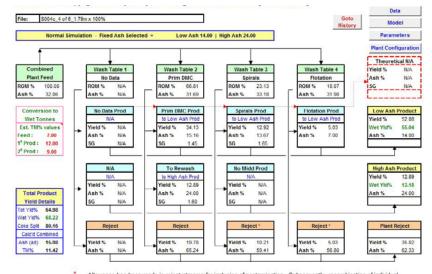
Data

95:0

Simulations can be run in either a fixed ash or fixed SG mode with the use of a drop down box. The use of simple push button tools enables the user to start the simulation process easily and rapidly.

Simulation outputs are clearly displayed on a circuit by circuit and whole of plant basis for both the product(s) and the reject streams. Each simulation can be custom built to meet your particular circuit configuration. All simulations can be recorded at the touch of a button with all information stored in a separate tab. Utilising as little as a plant feed ash sample and a resource database, *RESOURCE\_MASTOR*<sup>TM</sup> can be used to quickly simulate any changes in dilution from a feed source.

If you would like more details of any of A&B Mylec's suite of services please do not hesitate to contact A&B Mylec on the details below or visit our web site www.abmylec.com.au



\* Allowance has been made in reject streams for inclusion of contamination. Subsequently, recombination of individual feed stream qualities may not result in the stated "Fresh" stream feed quality. This is due to the recirculating slimes contamination material effectively increasing the ash to the individual "Fresh" feed stream qualities.